551
M77p
Atlas

HAROLD M. MOONEY and W. W. WETZEL

Master Resistivity Curves for a Two-, Three-, and Four-Layer Earth

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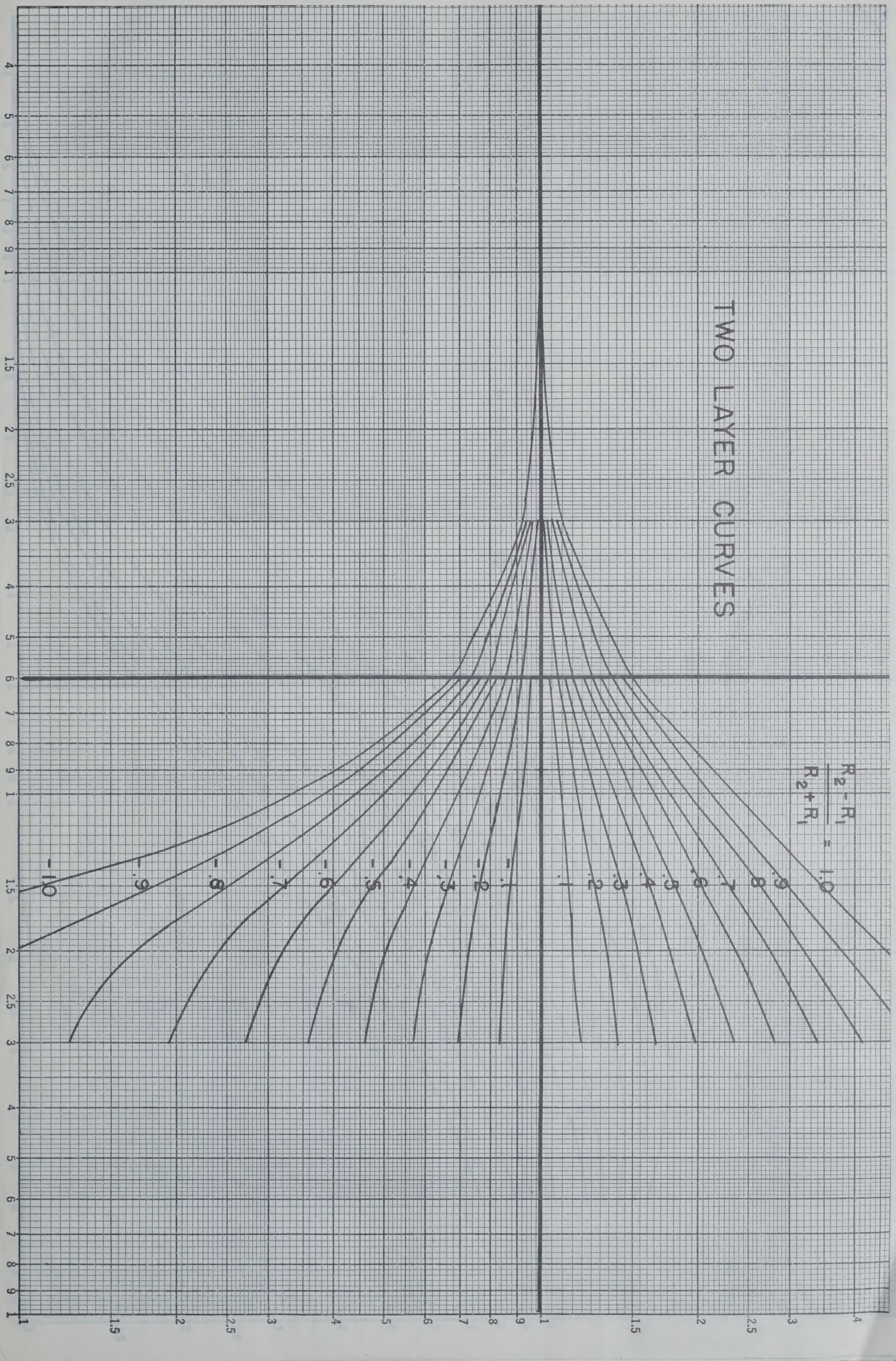
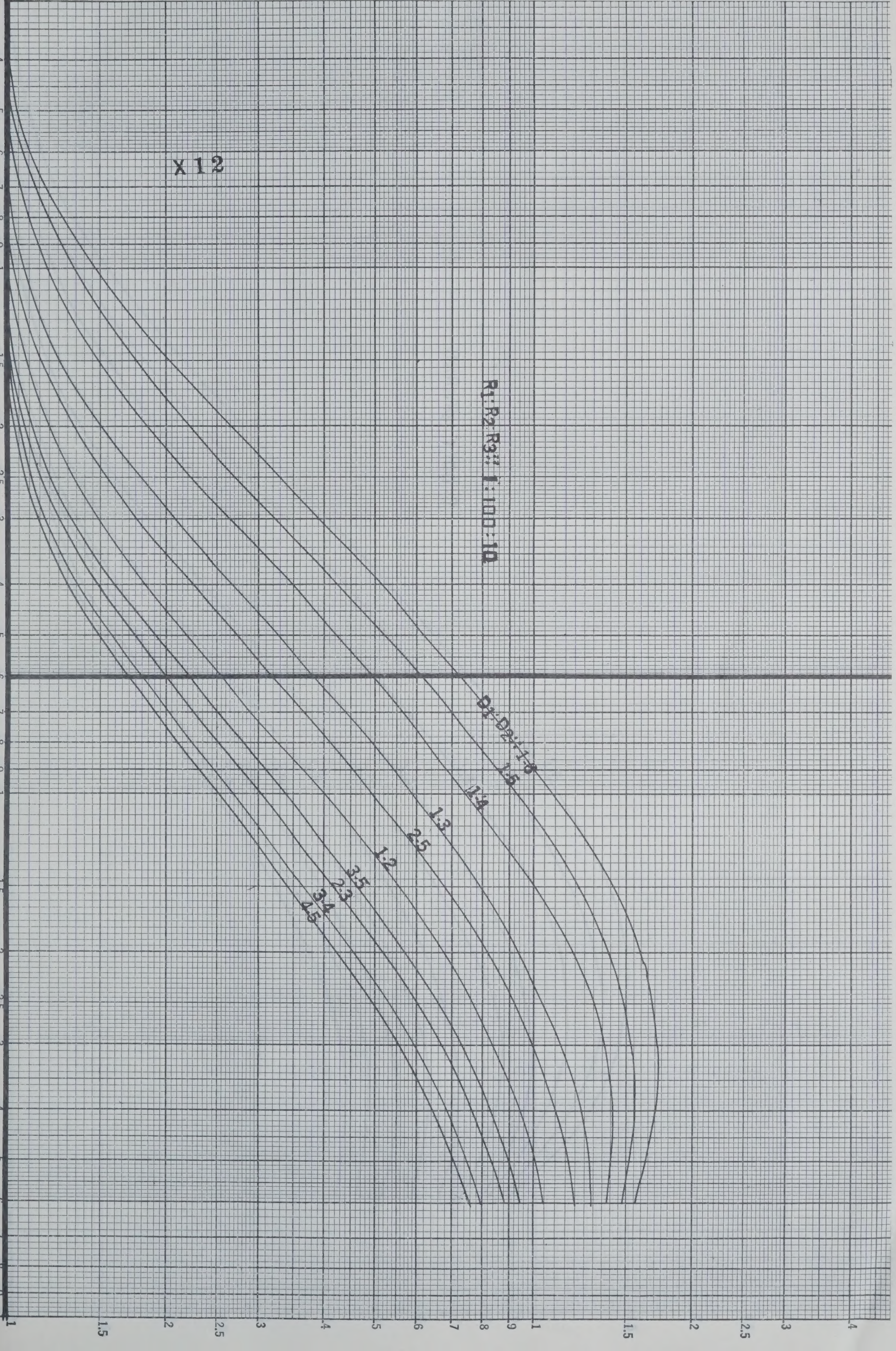
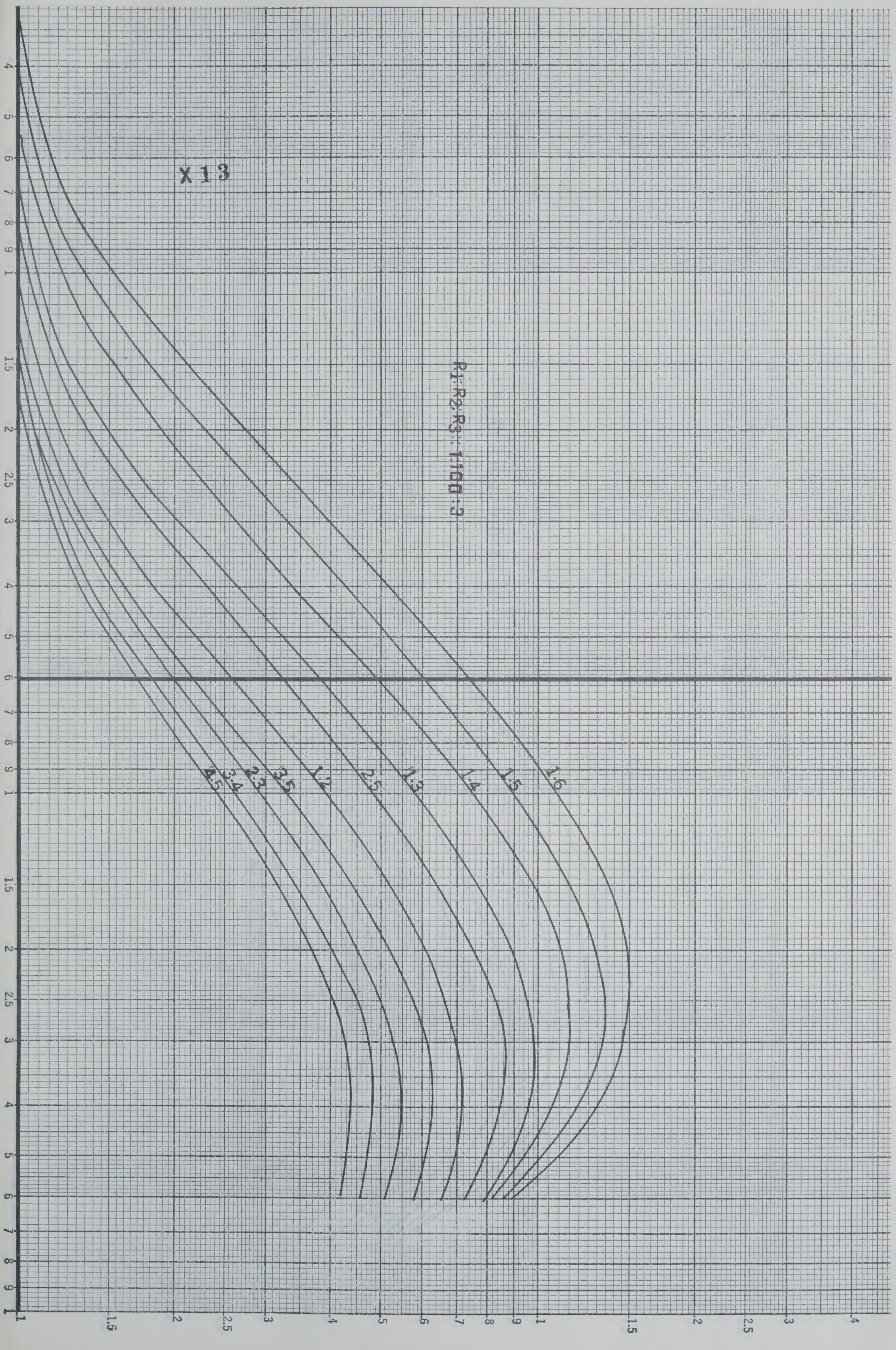
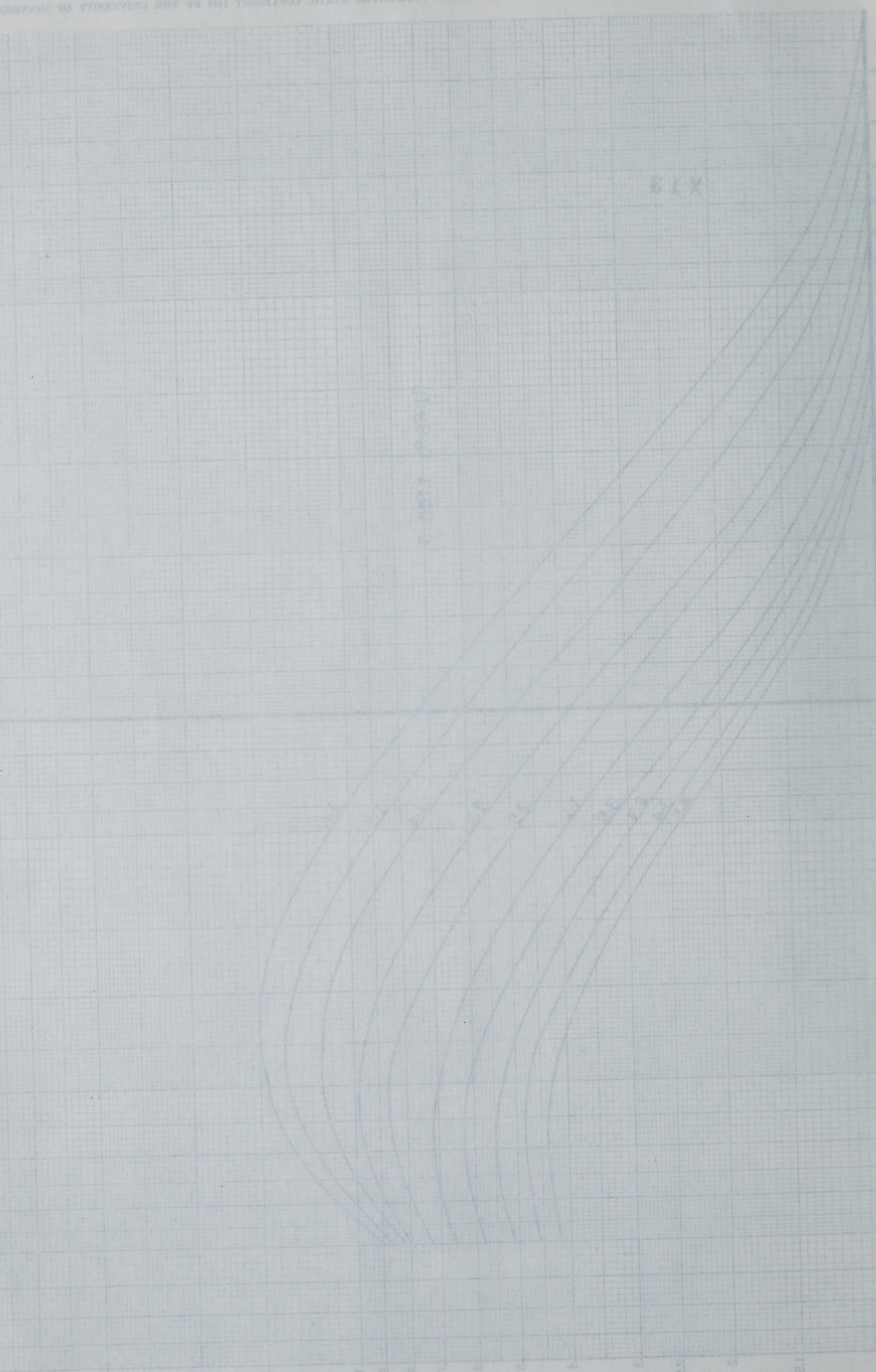
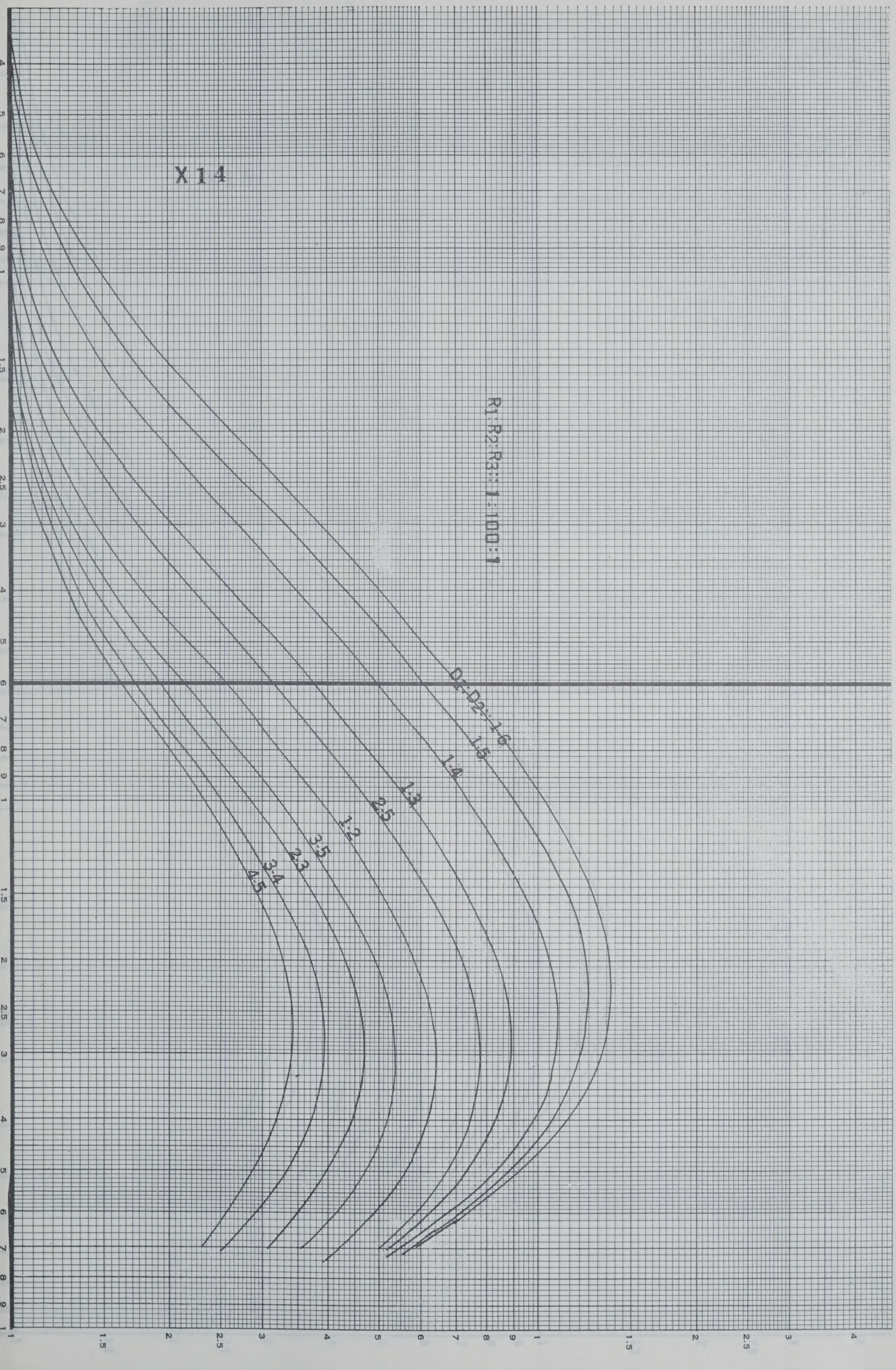
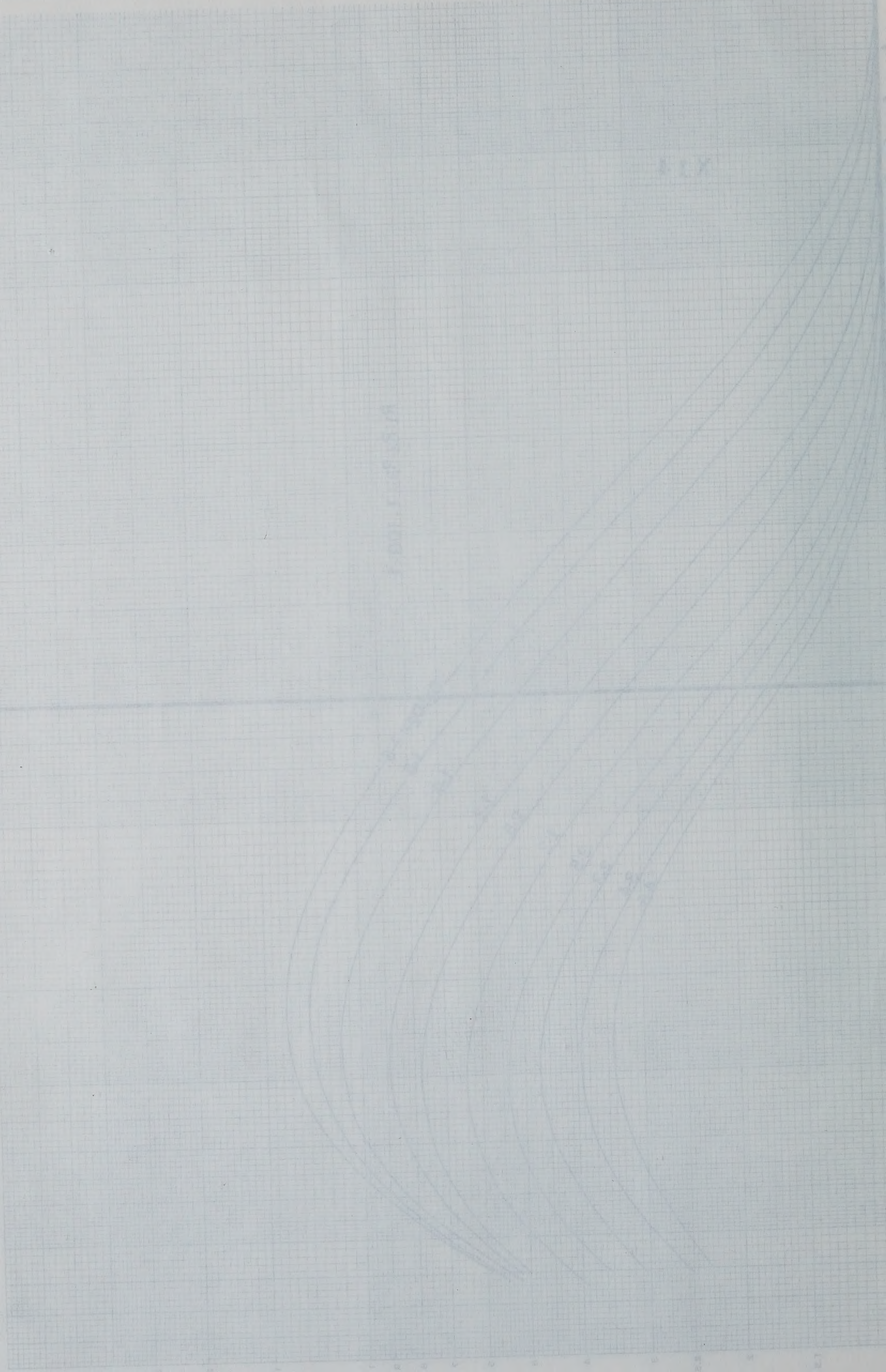

TWO LAYER CURVES
(R2 - R1)/(R2 + R1) = 1.0
-1.0
-.9
-.8
-.7
-.6
-.5
-.4
-.3
-.2
-.1
.1
.2
.3
.4
.5
.6
.7
.8
.9

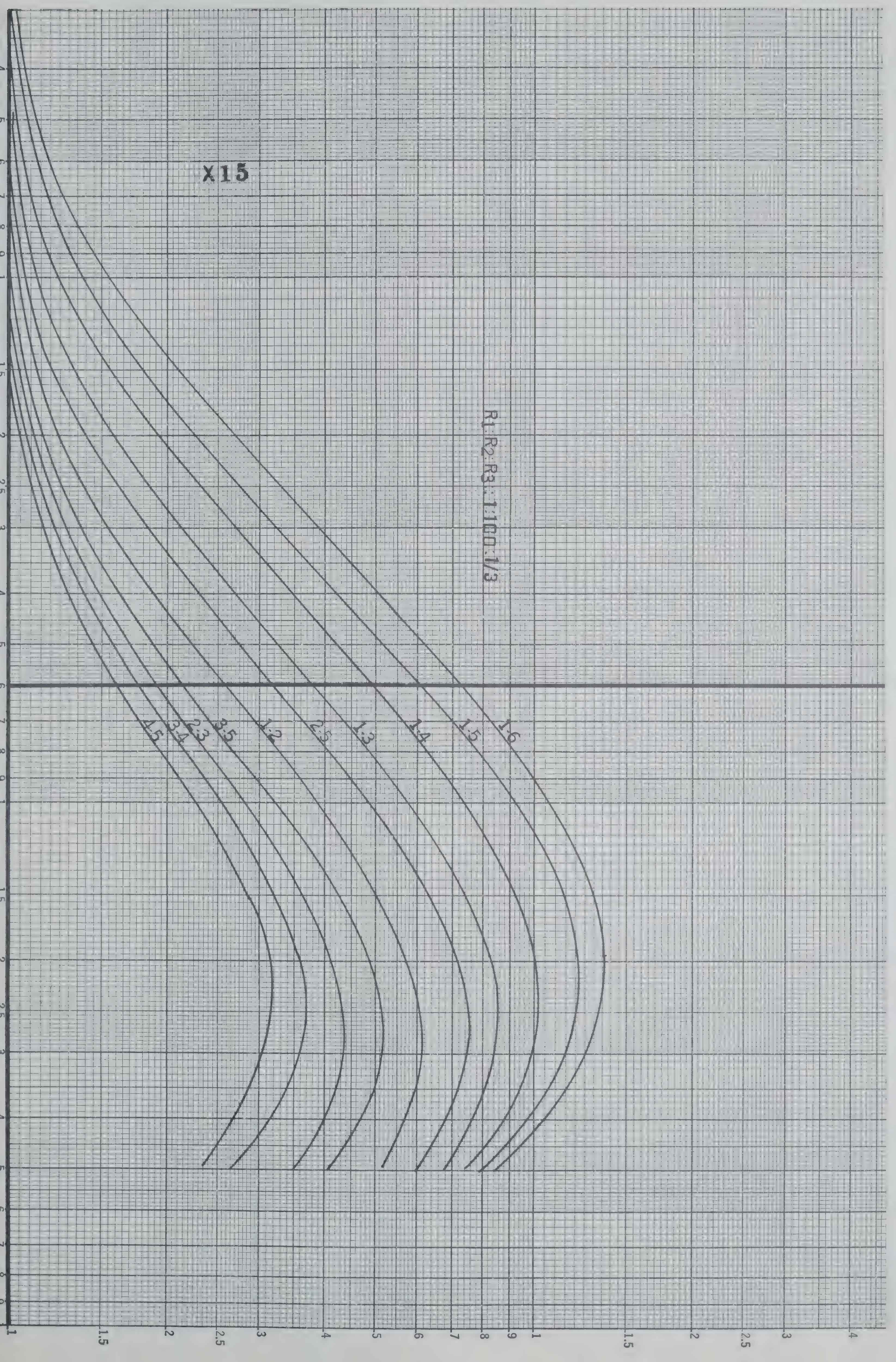

X 12
R1:R2:R3::1:100:10
D1:D2::1:6
1:5
1:4
1:3
2:5
1:2
3:5
2:3
3:4
4:5

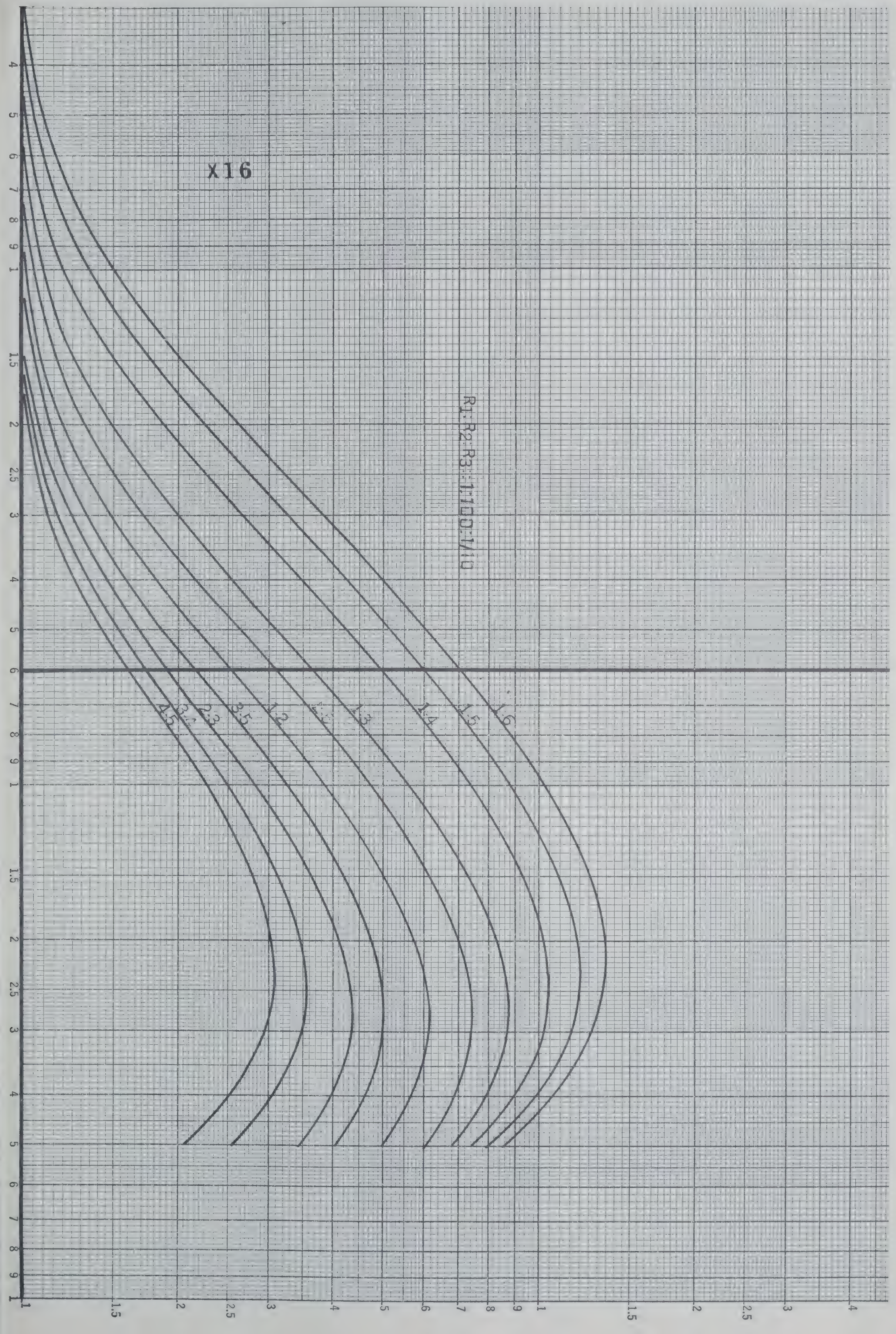

X 13
R1:R2:R3::1:100:3
4.5
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6

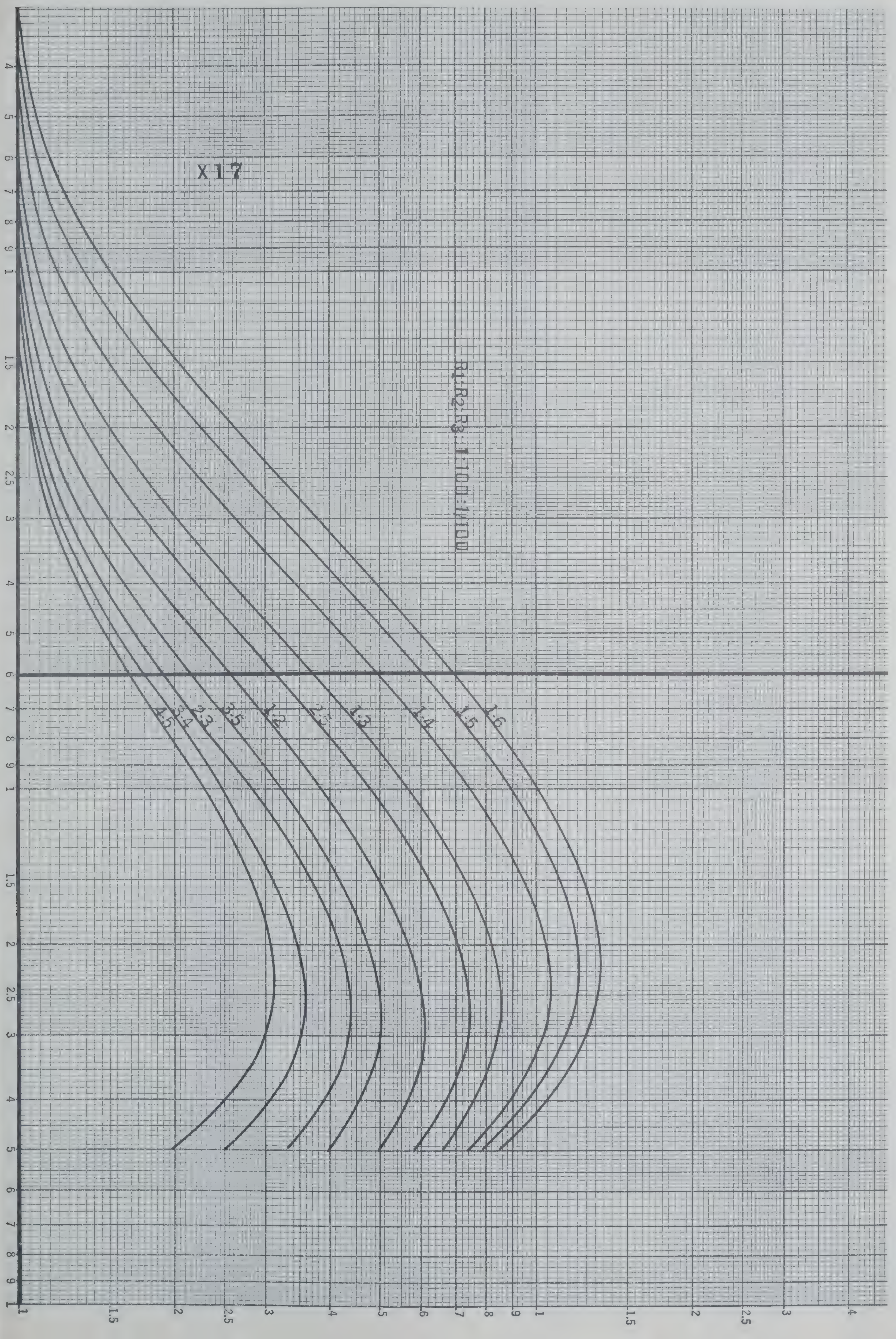



X 14
R1:R2:R3::1:100:1
D1:D2::1:6
1:5
1:4
1:3
2:5
1:2
3:5
2:3
3:4
4:5




X15
R1:R2:R3::1:100:1/3
4.5
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6


X16
R1:R2:R3::1:100:1/10
4.5
2.3
3.5
1.2
1.3
1.4
1.5
1.6


X17
R1:R2:R3:1:100:1/100
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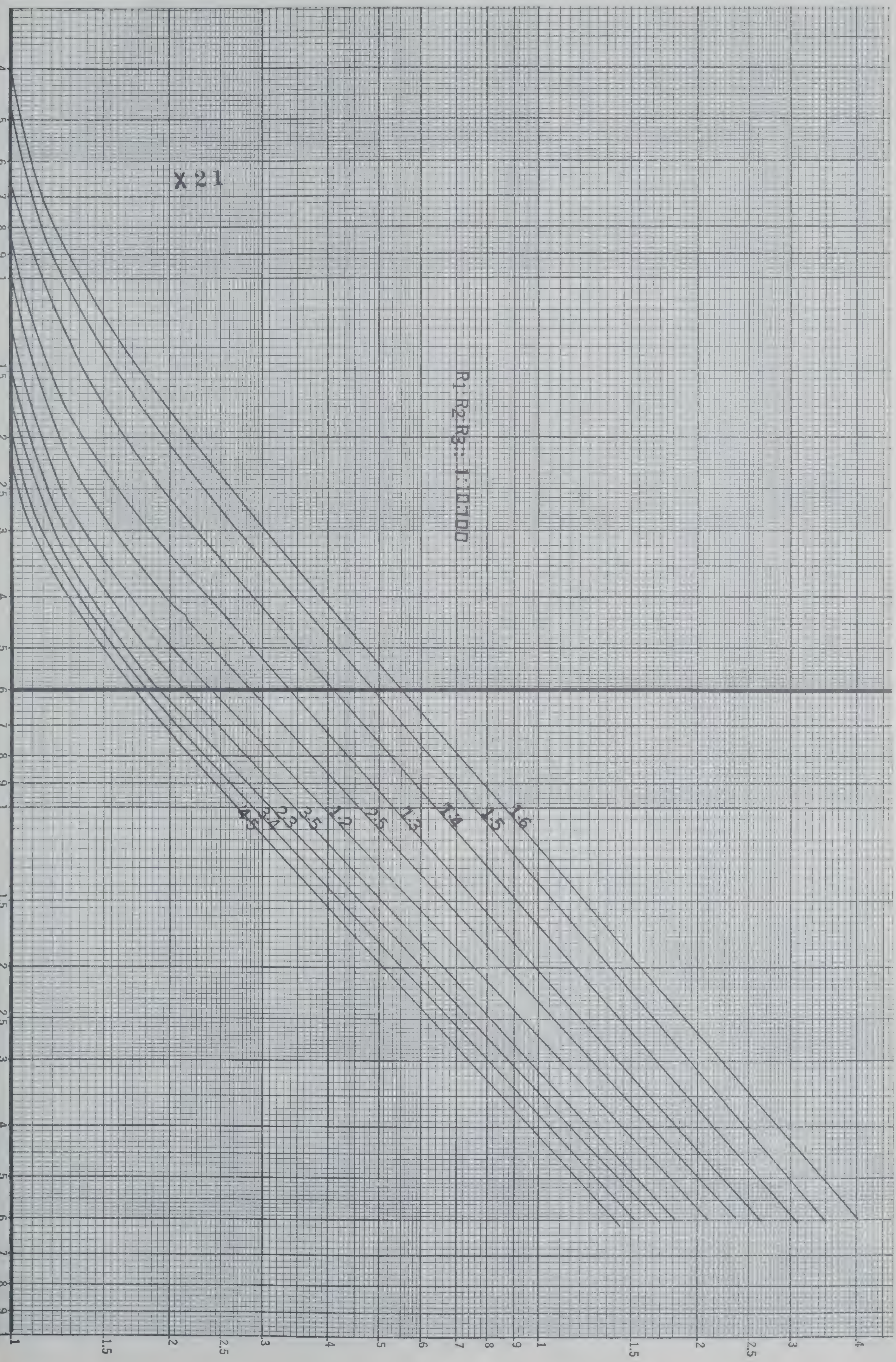
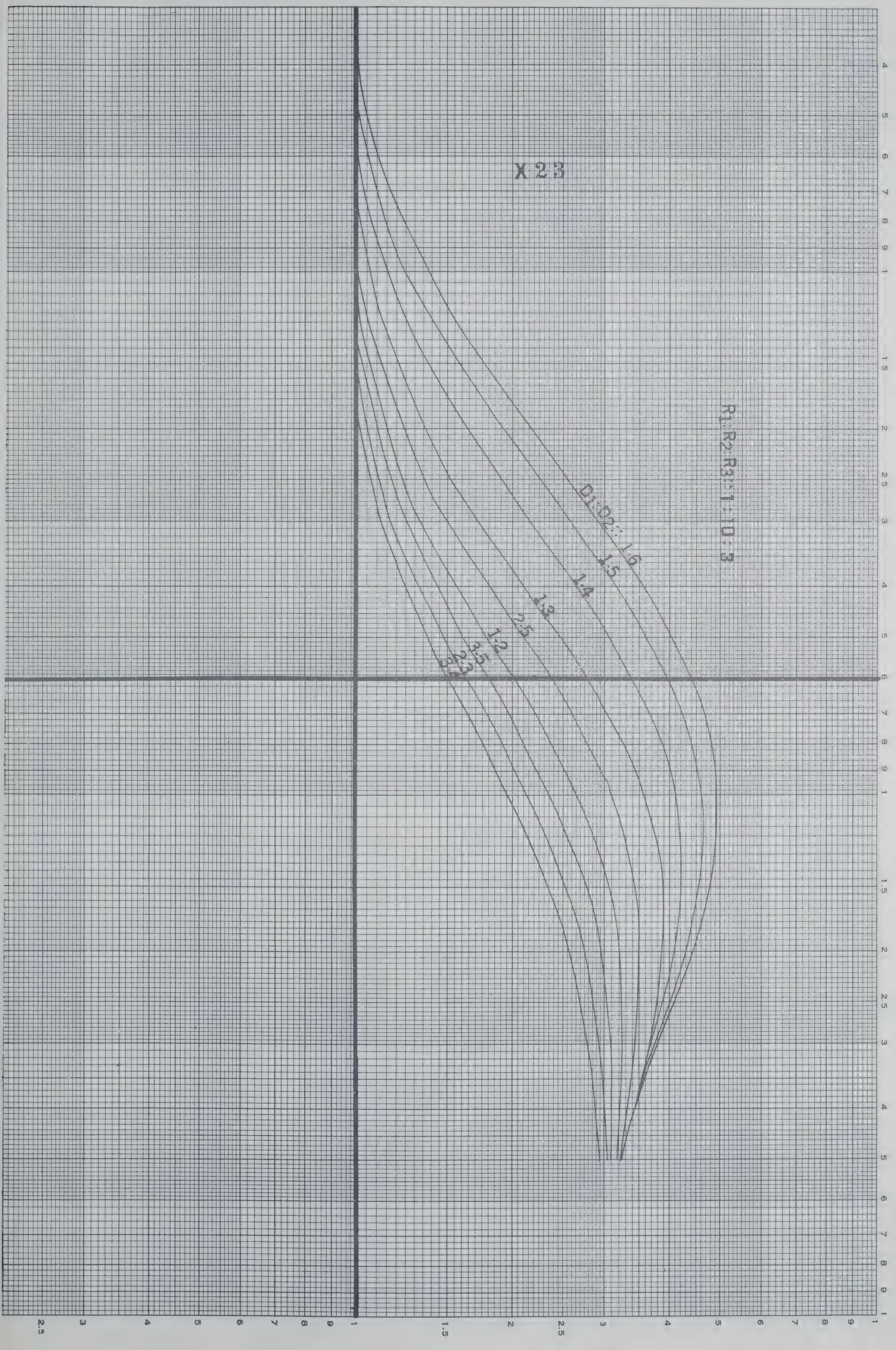
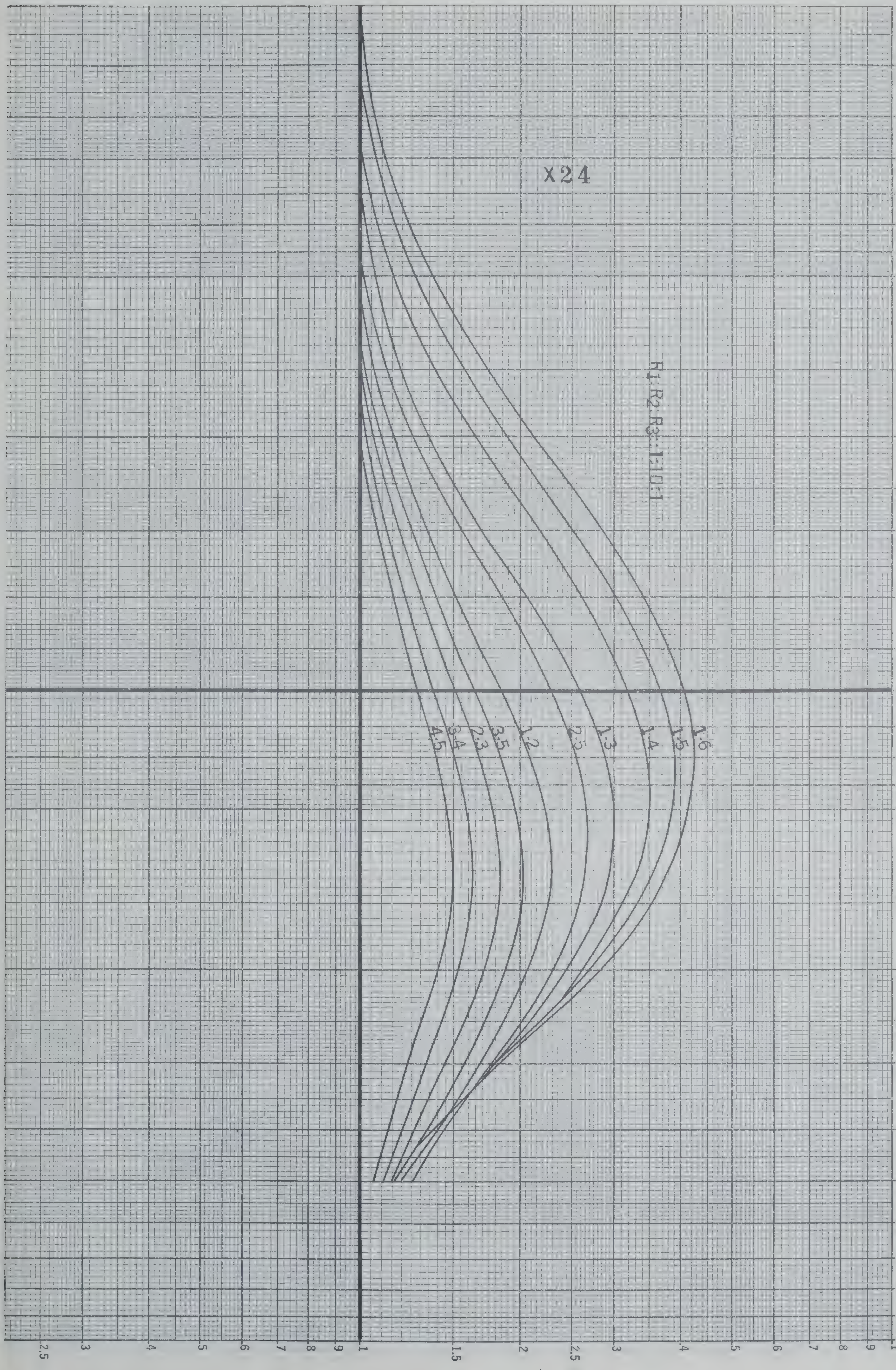
3.4
2.3
3.5
1.2
1.3
1.4
1.5
1.6


X 21
R1:R2:R3:: 1:10:100
1.6
1.5
1.4
1.3
2.5
1.2
3.5
2.3
3.4
4.5


X 23
R1:R2:R3::1:10:3
D1:D2:: 1.6
1.5
1.4
1.3
2.5
1.2
3.5
2.3
3.4


X24
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3.4
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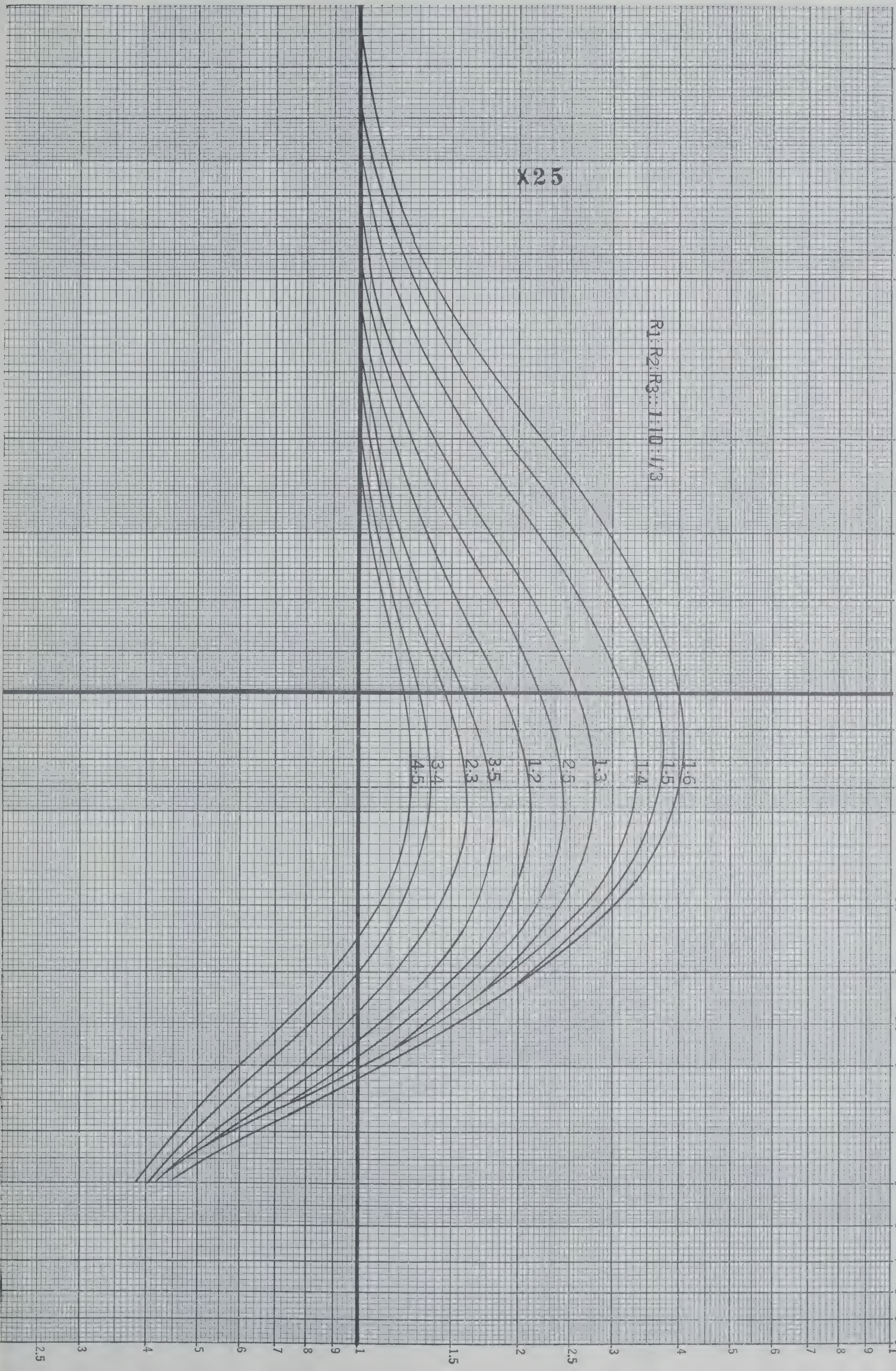
3.5
1.2
2.5
1.3
1.4
1.5
1.6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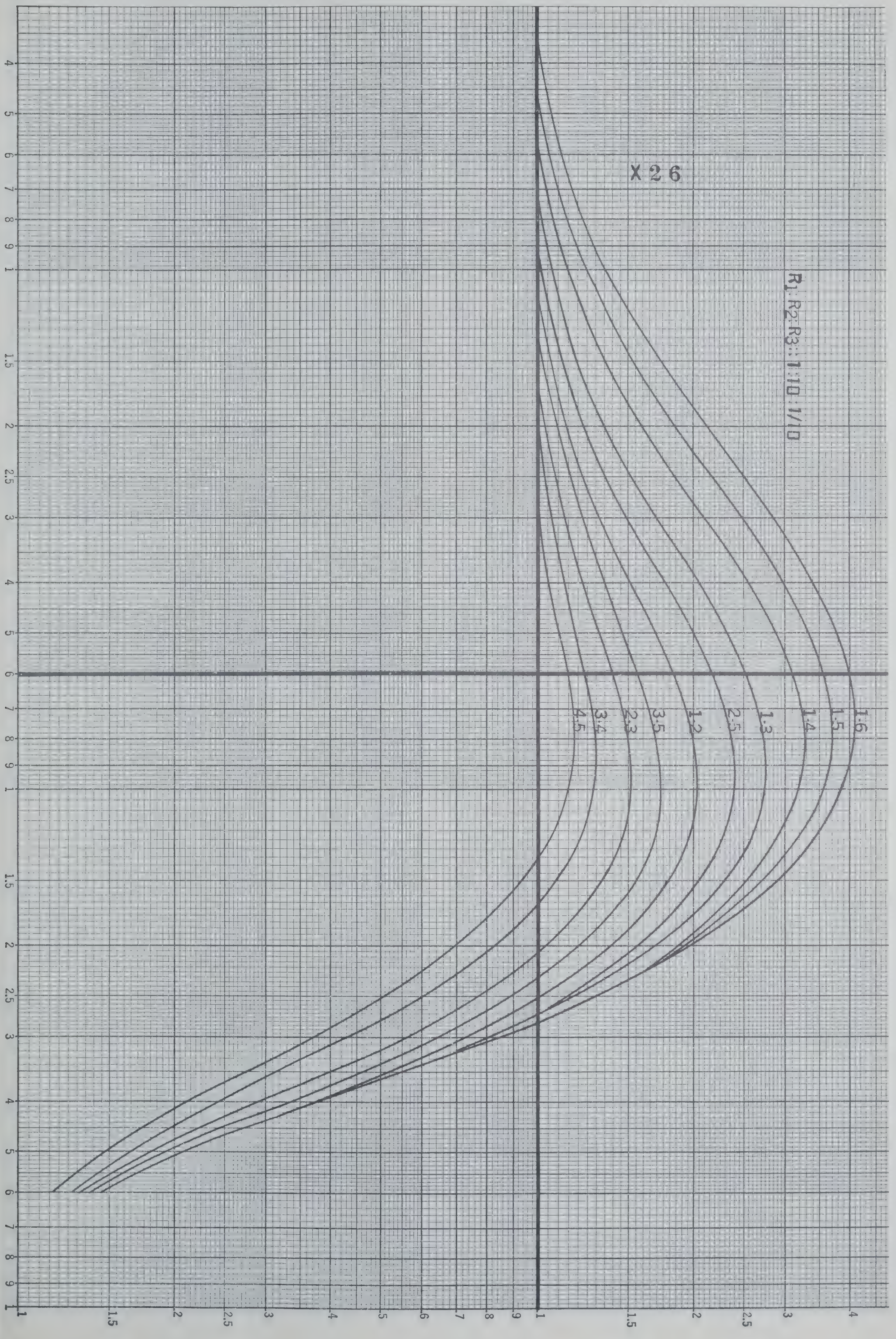
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6


X 26
R1:R2:R3::1:10:1/10
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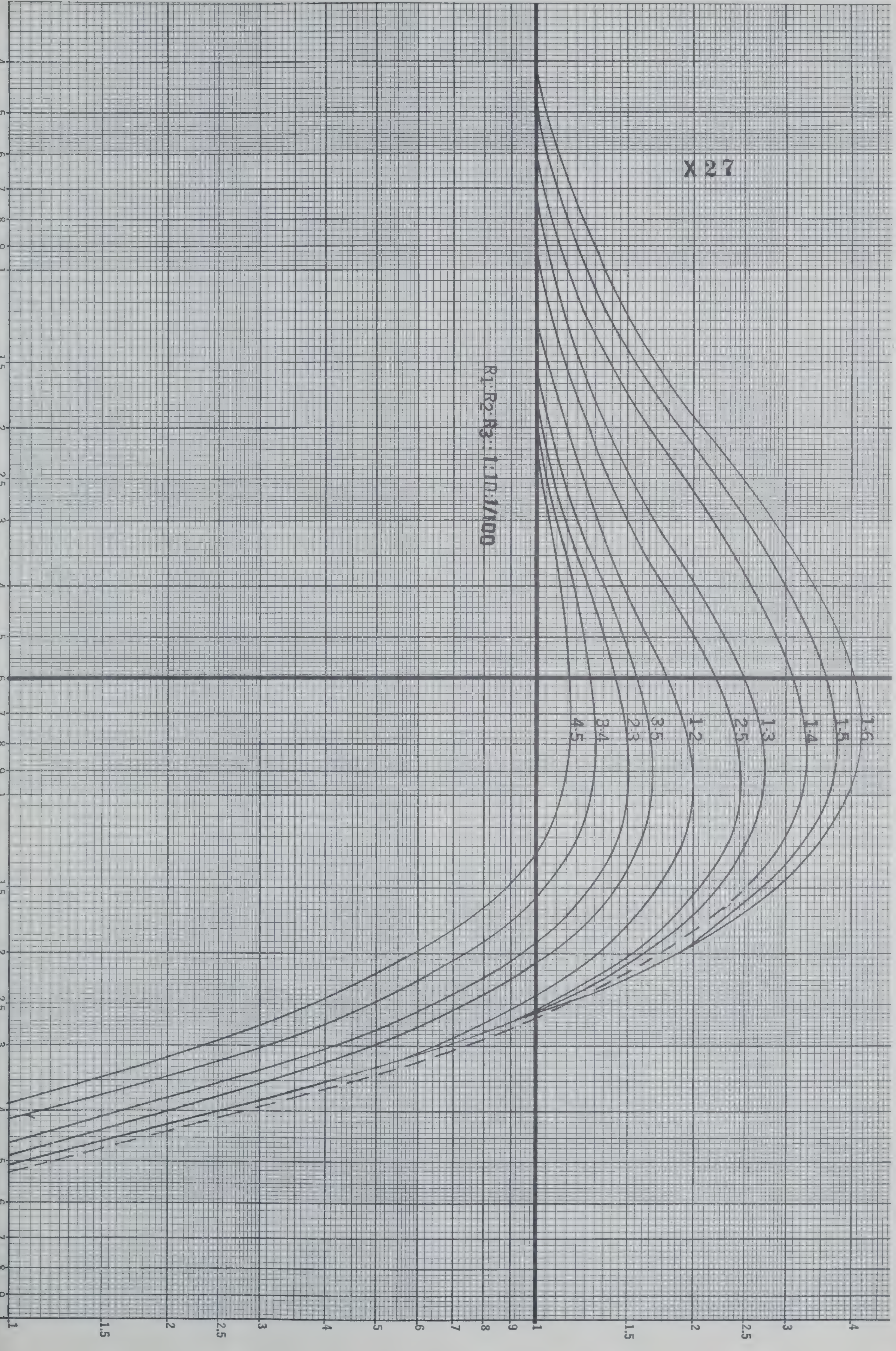
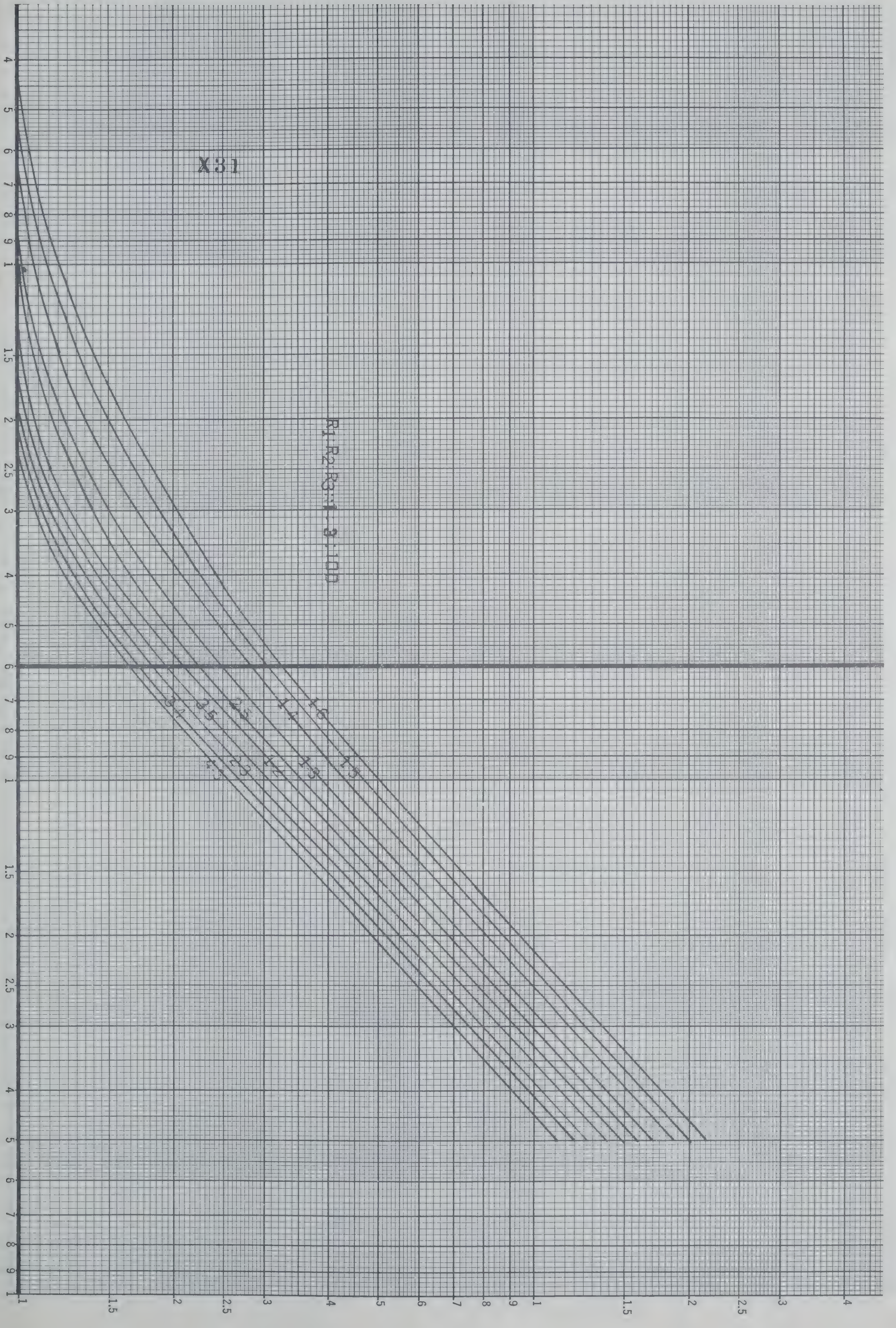
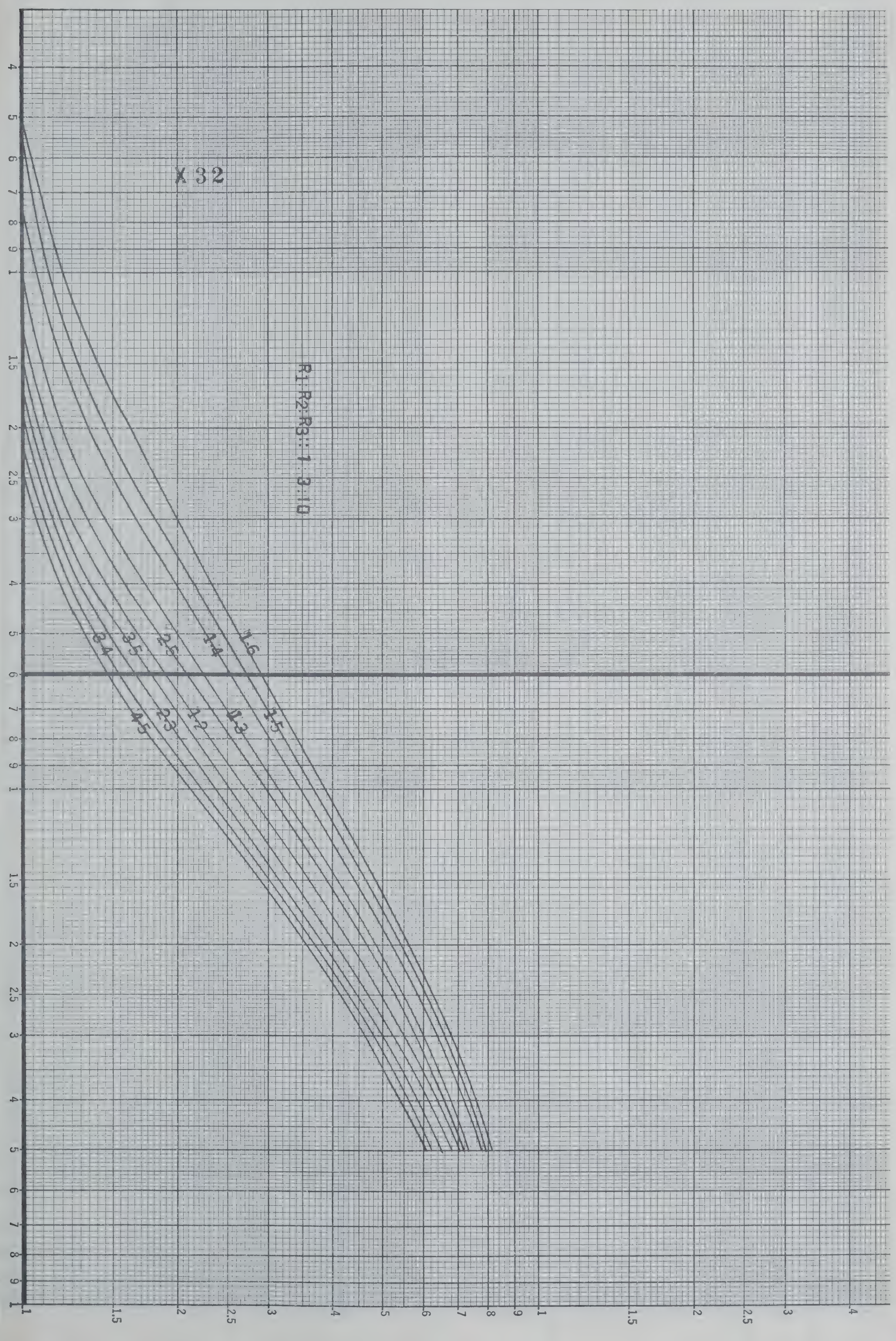
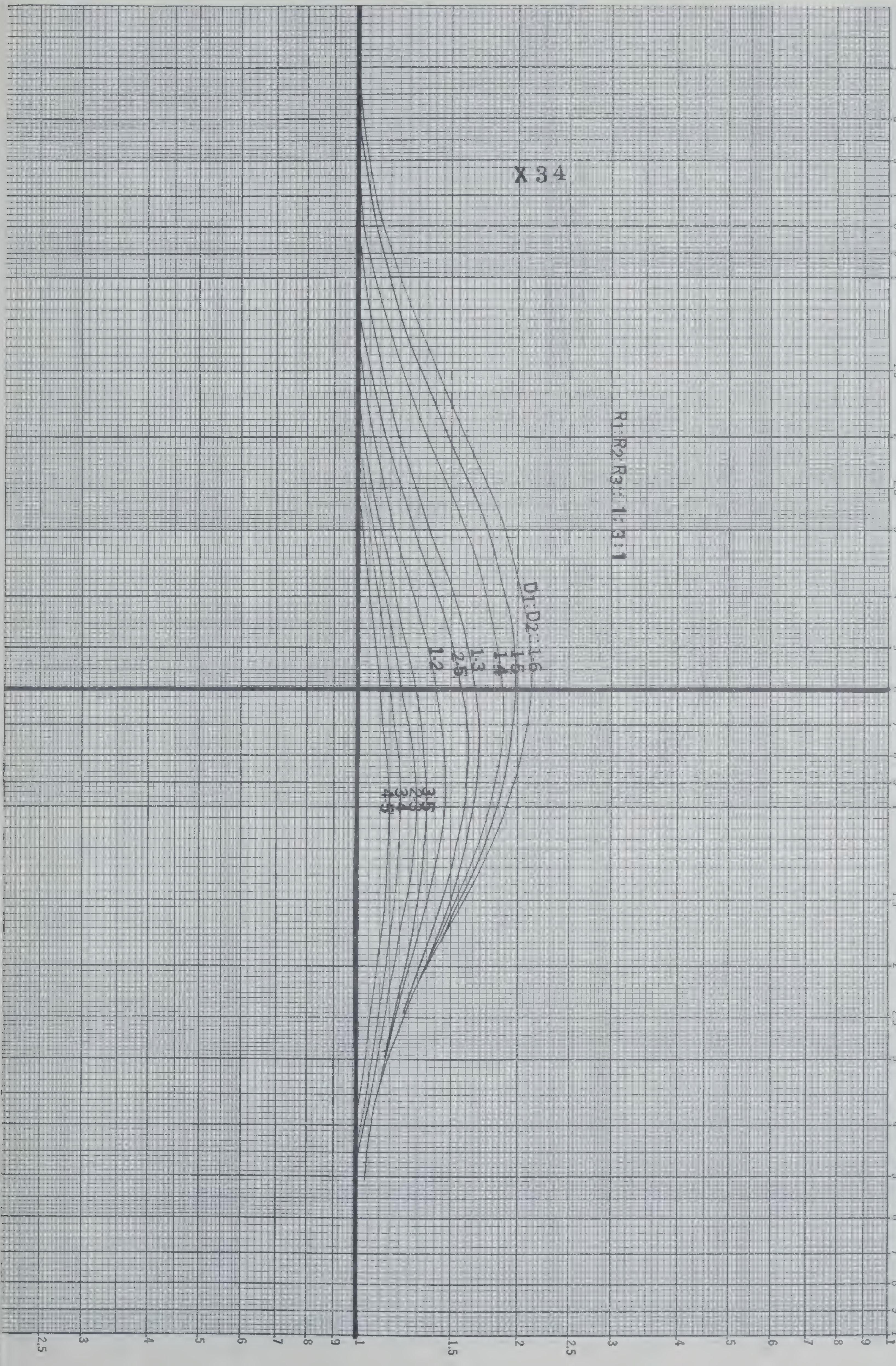
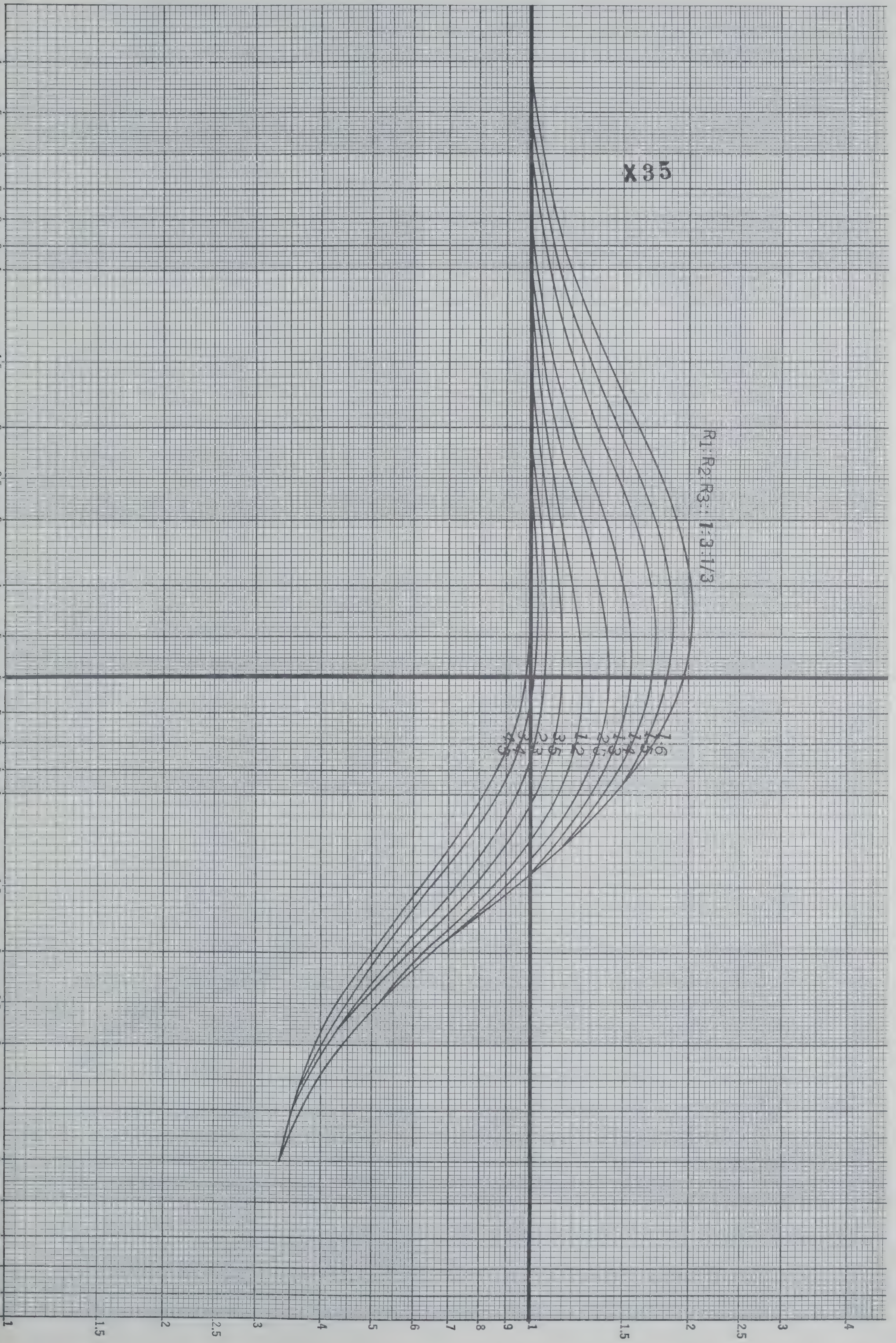
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6


X 27
R1:R2:R3::1:10:1/100
4.5
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6


X31
R1:R2:R3:1:3:100


X 32
R1:R2:R3::1:3:10
3.4
3.5
2.5
1.4
1.6
4.5
2.3
1.2
1.3
1.5


X 34
R1:R2:R3::1:3:1
D1:D2::1.6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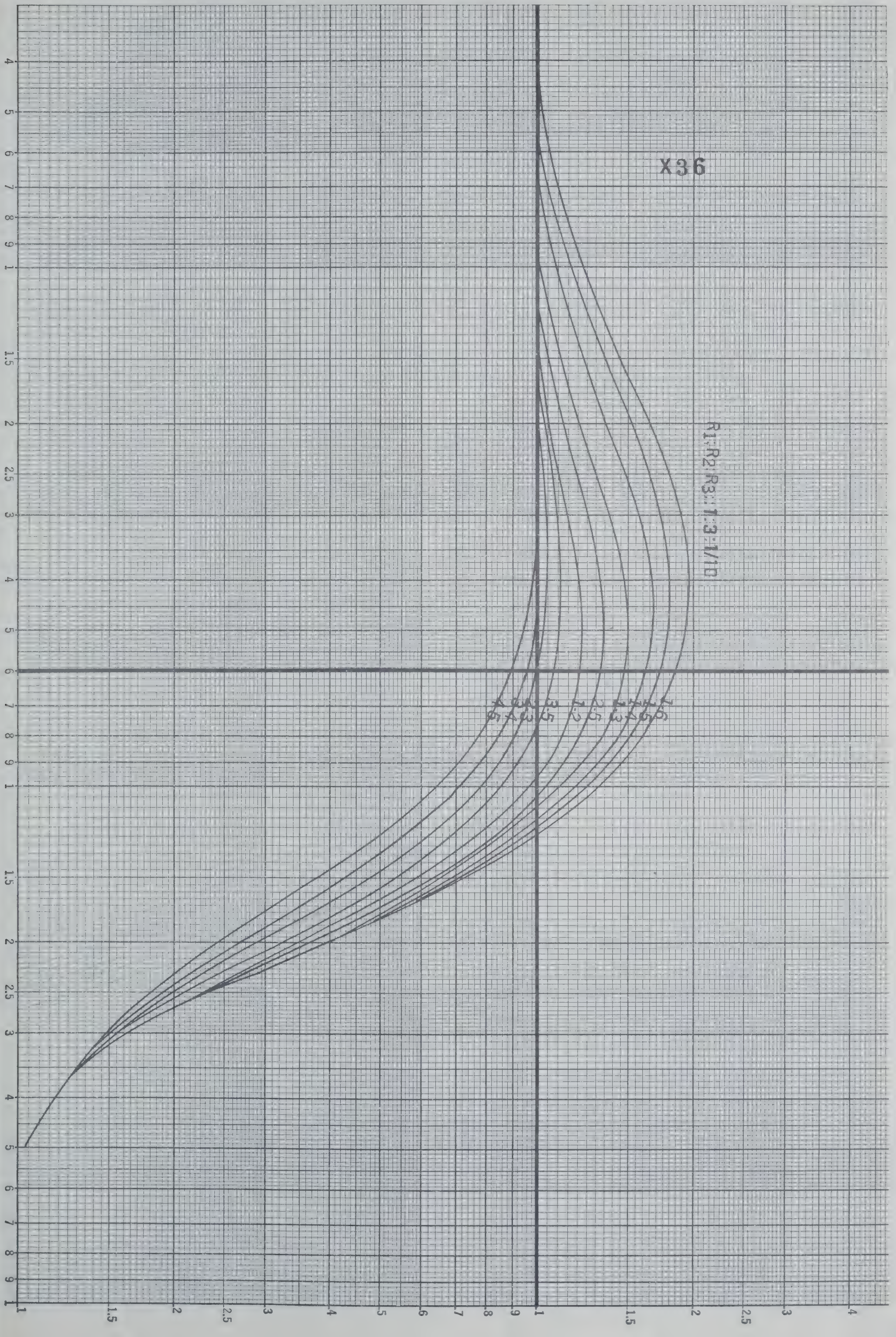
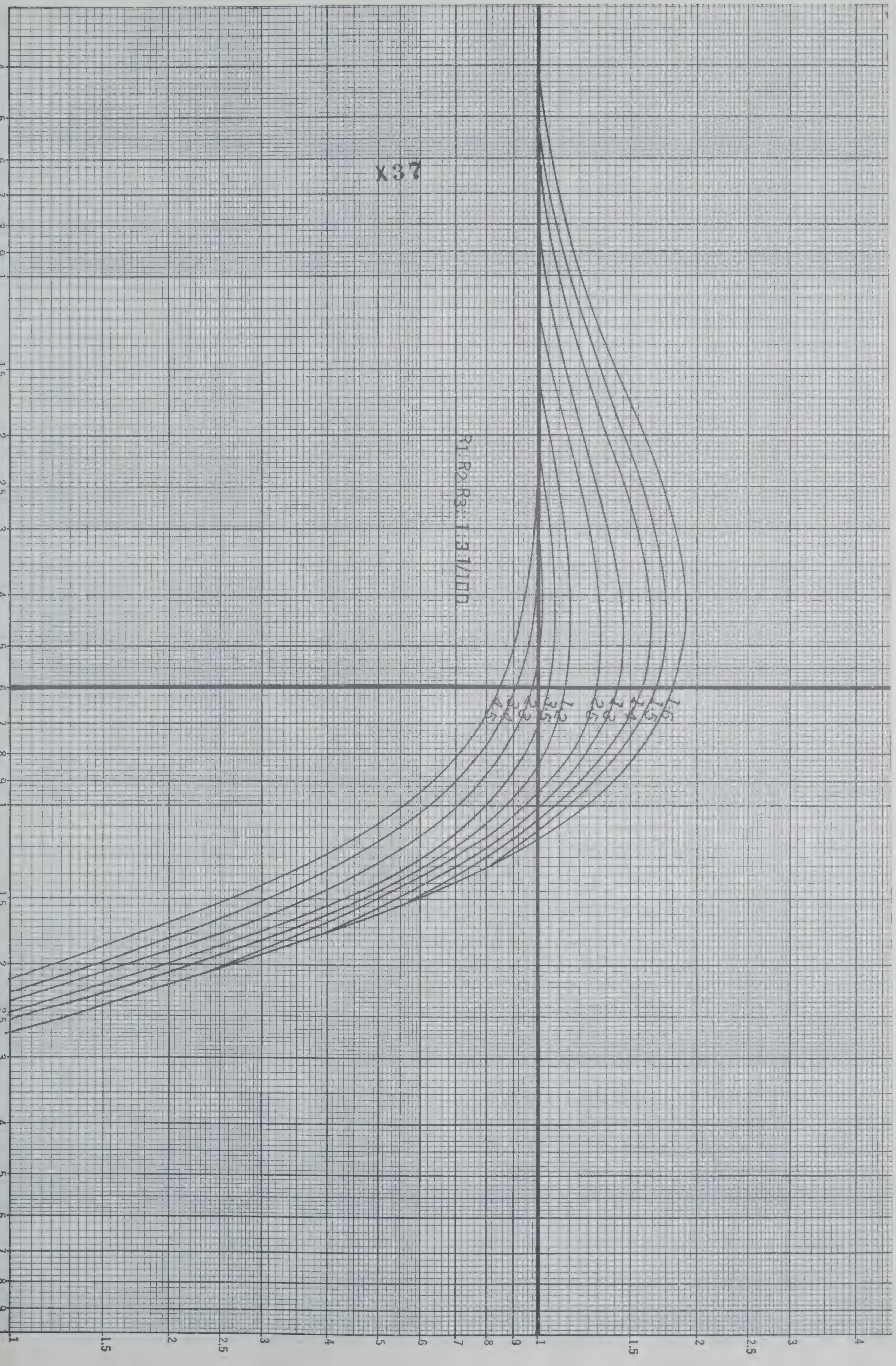
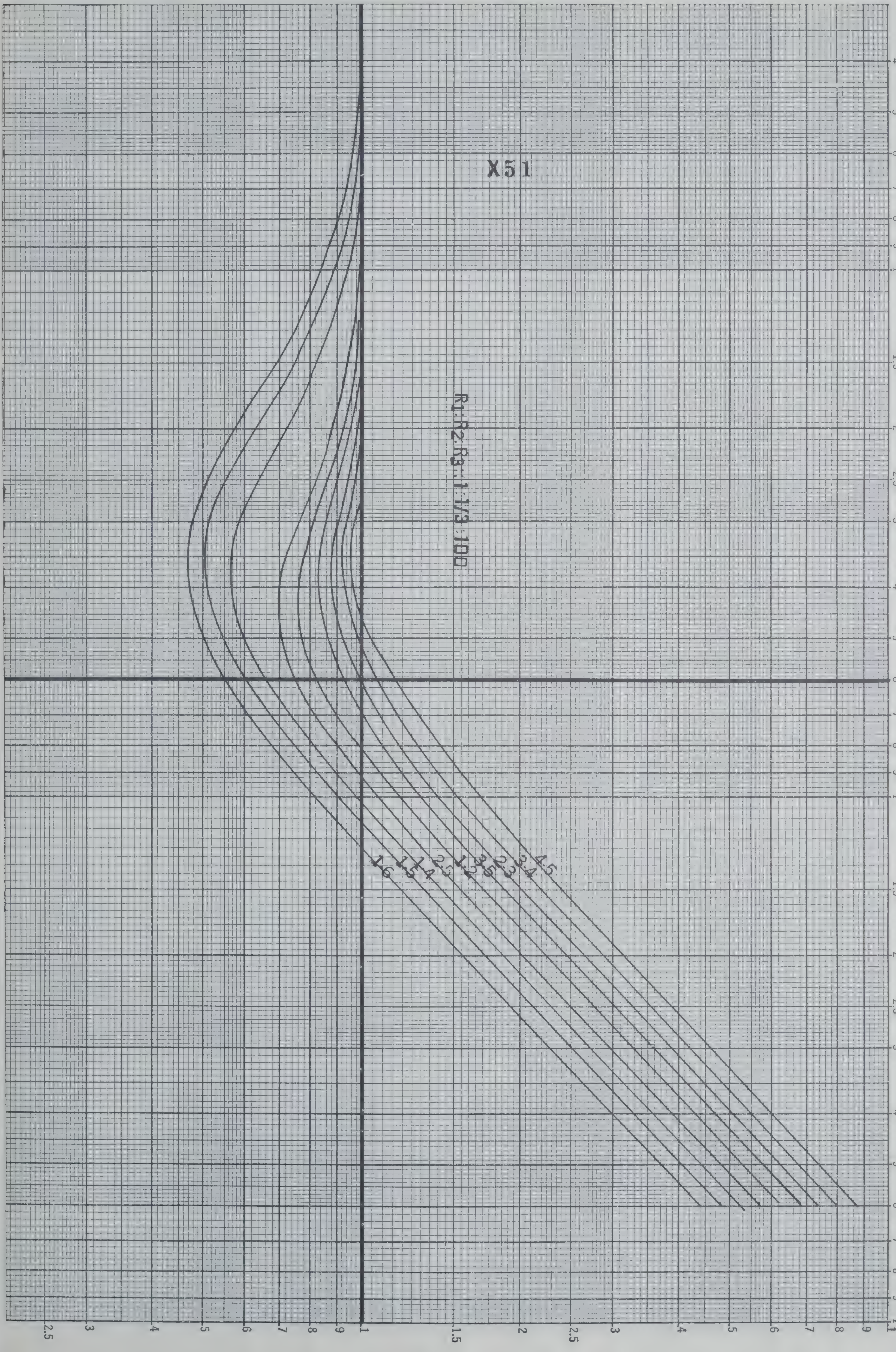
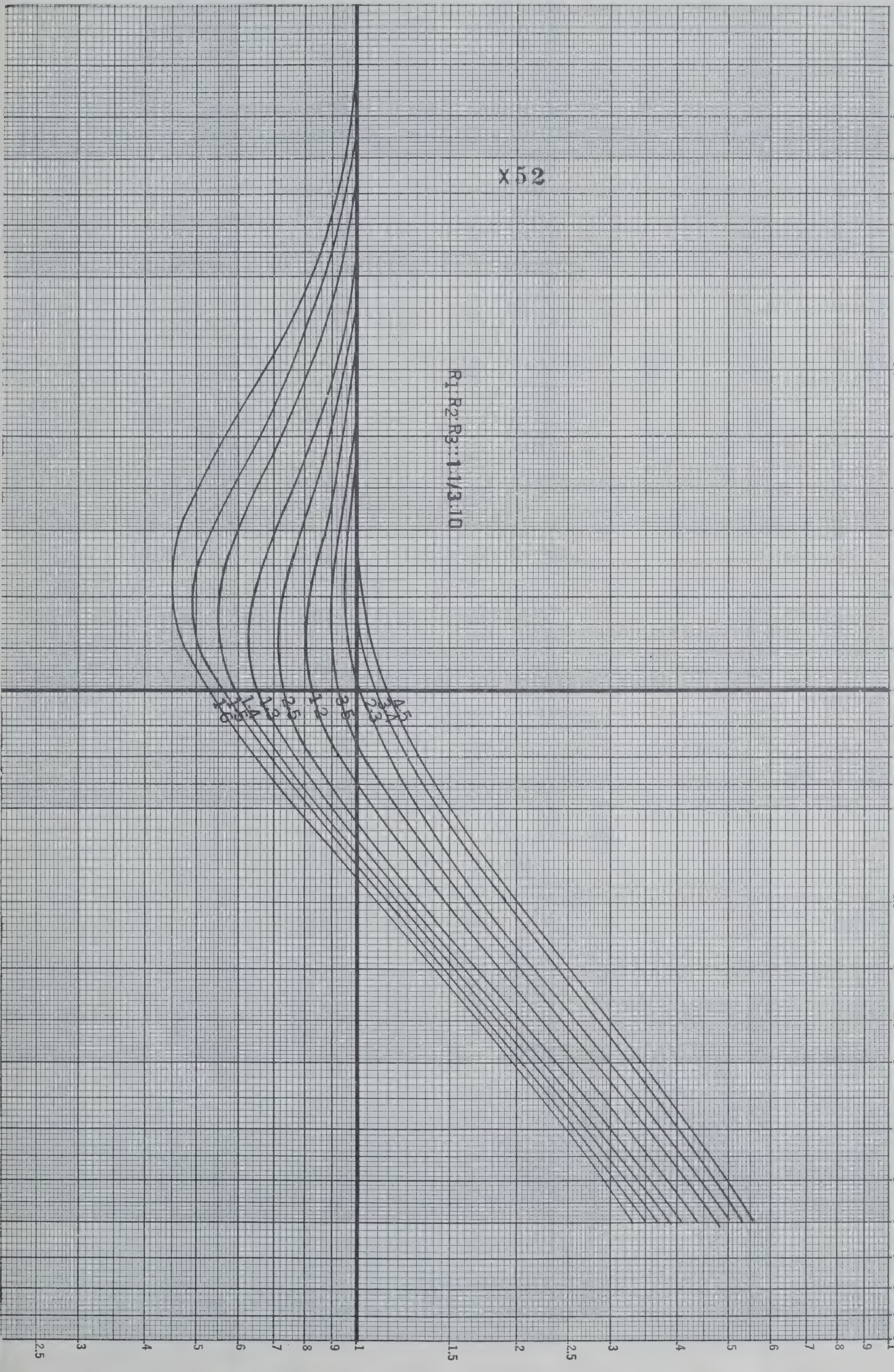
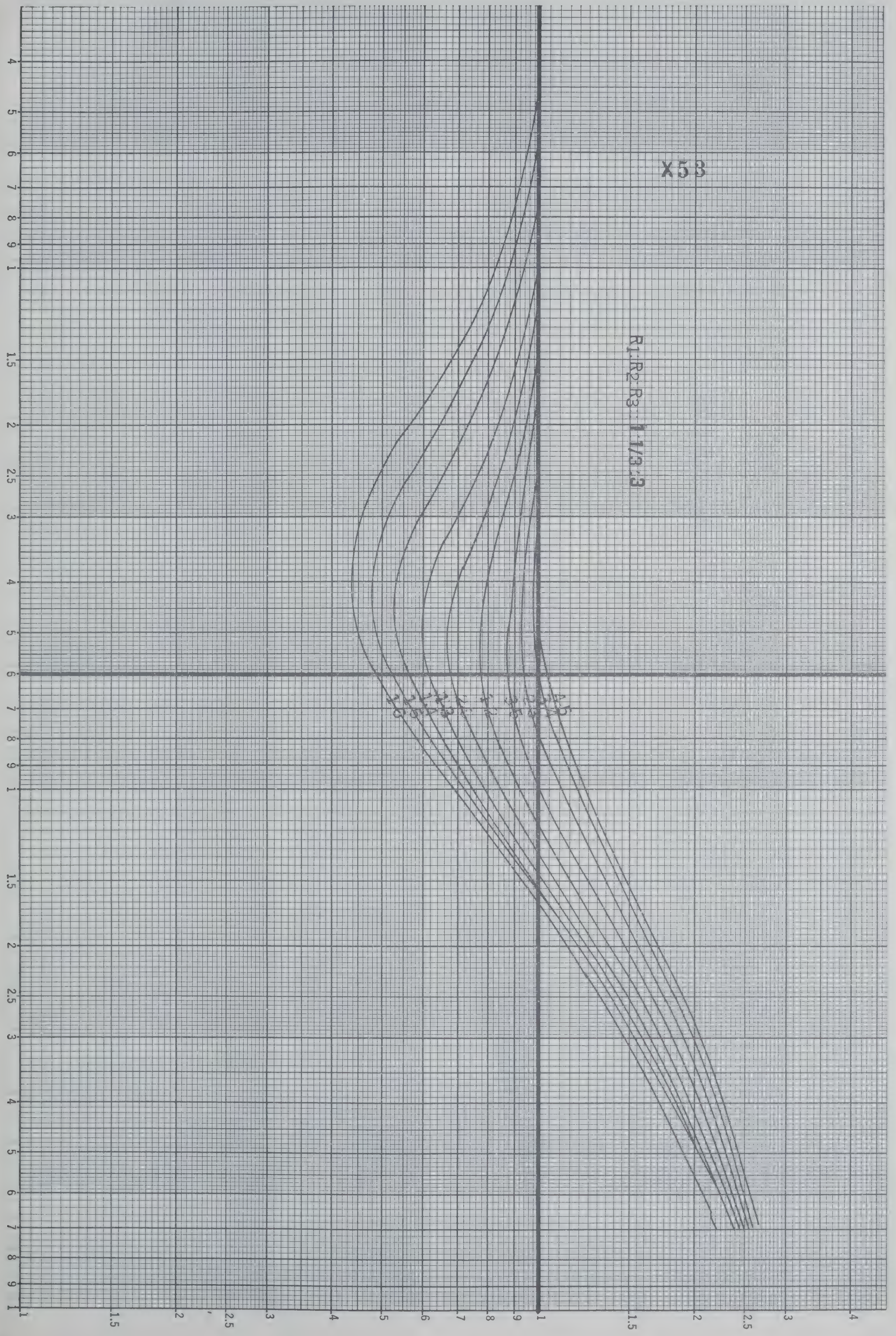
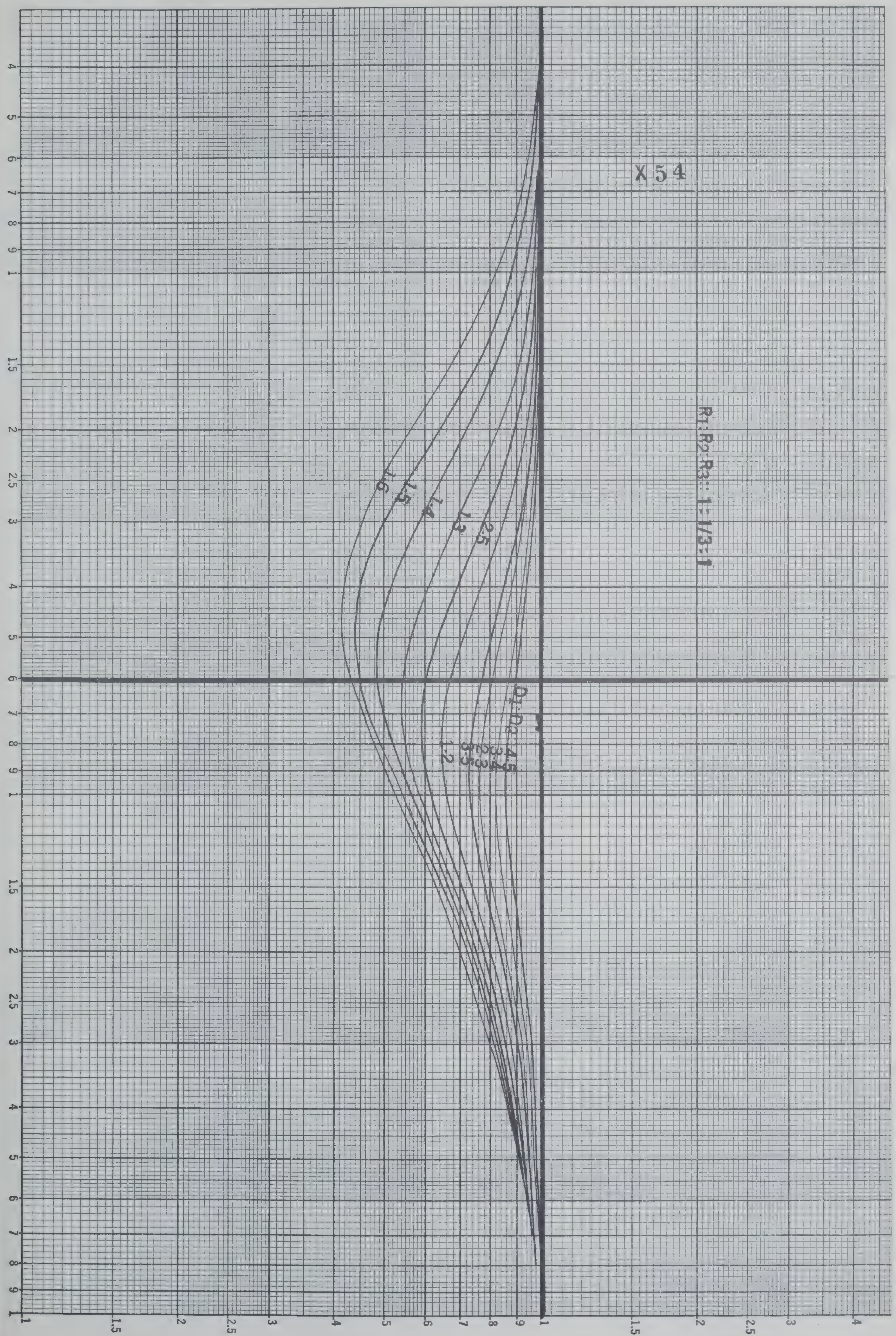

X36
R1:R2:R3: 1:3:1/10

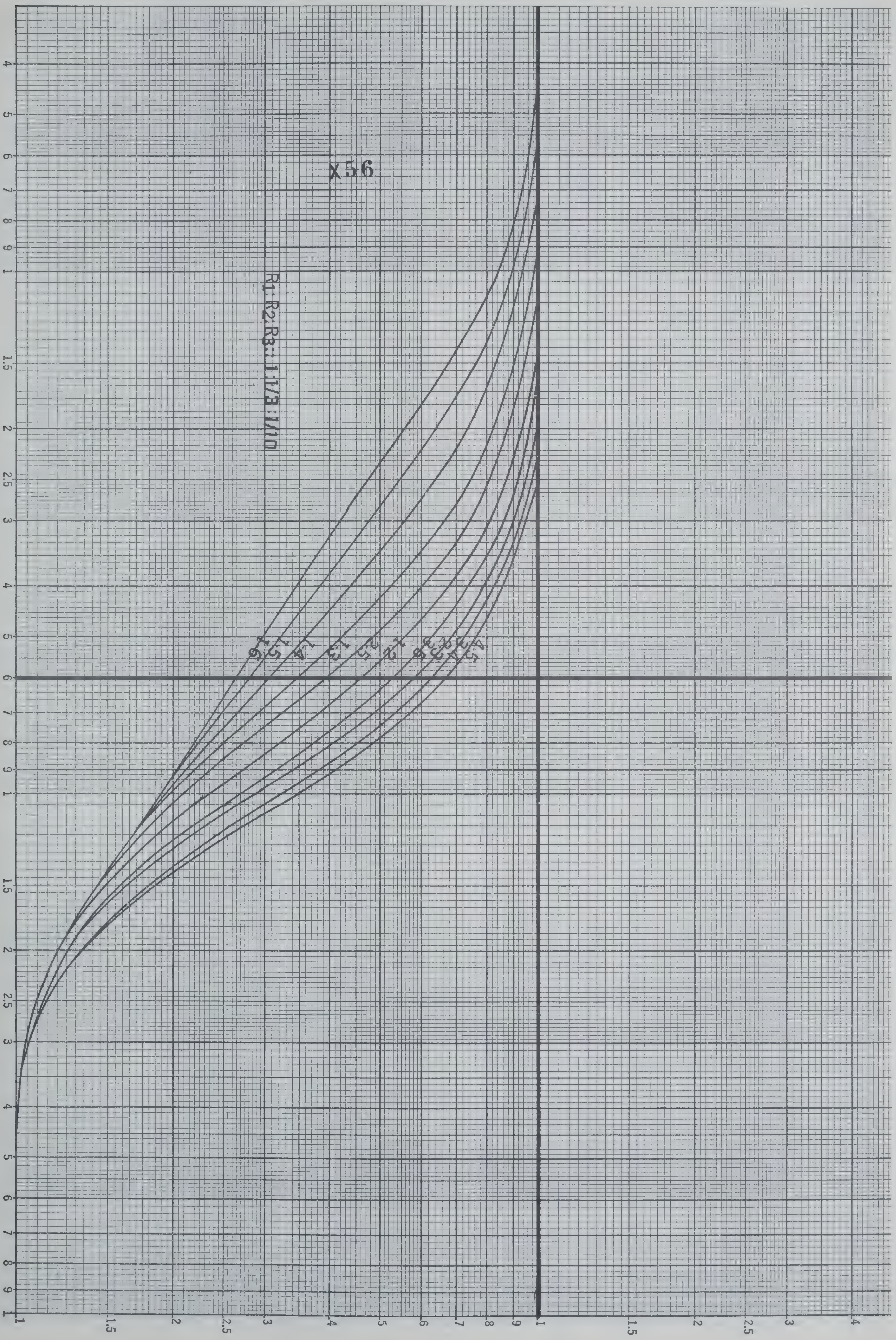

X37
R1:R2:R3::1:3:1/100

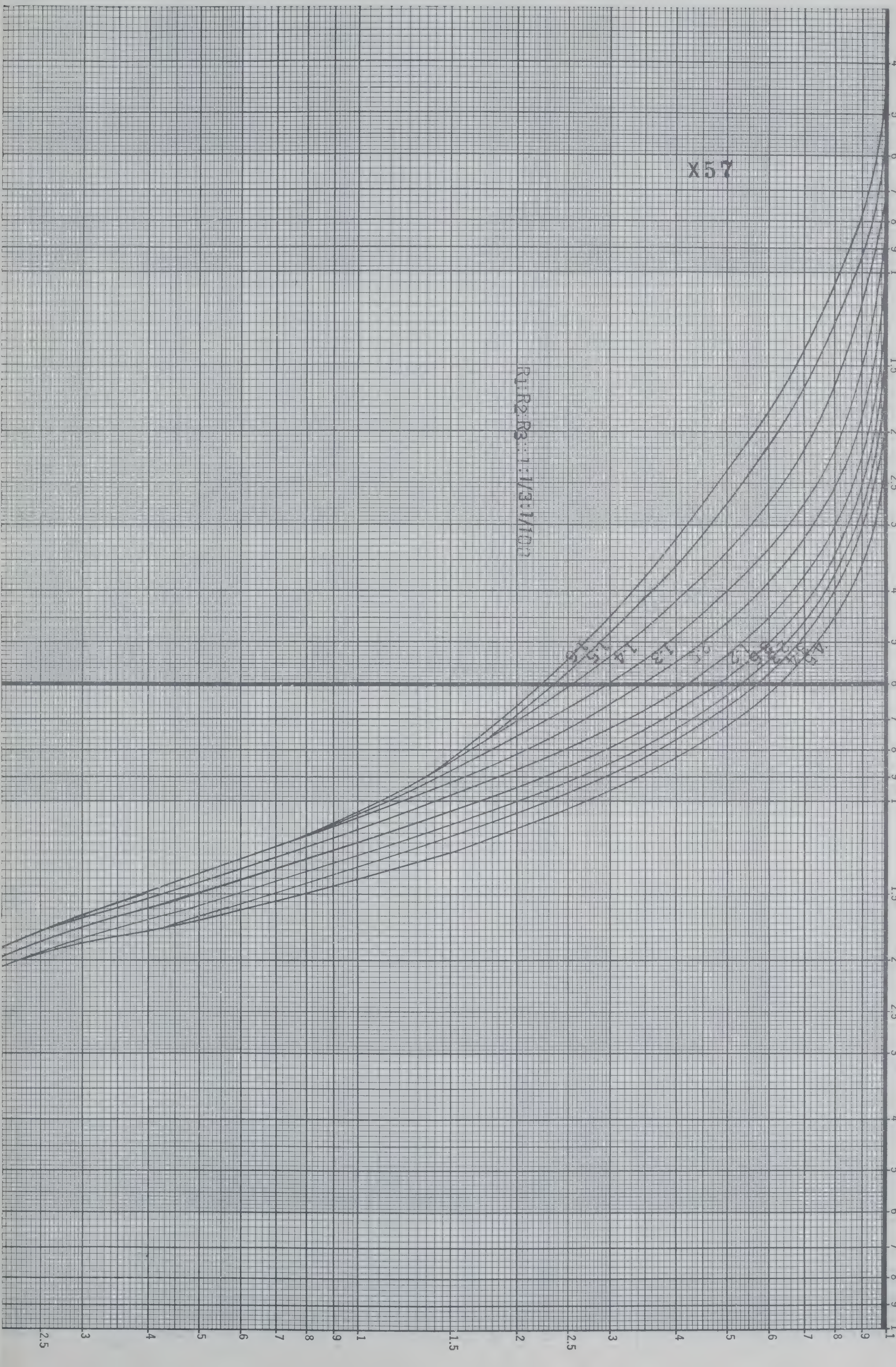

X51
R1:R2:R3::1:1/3:100

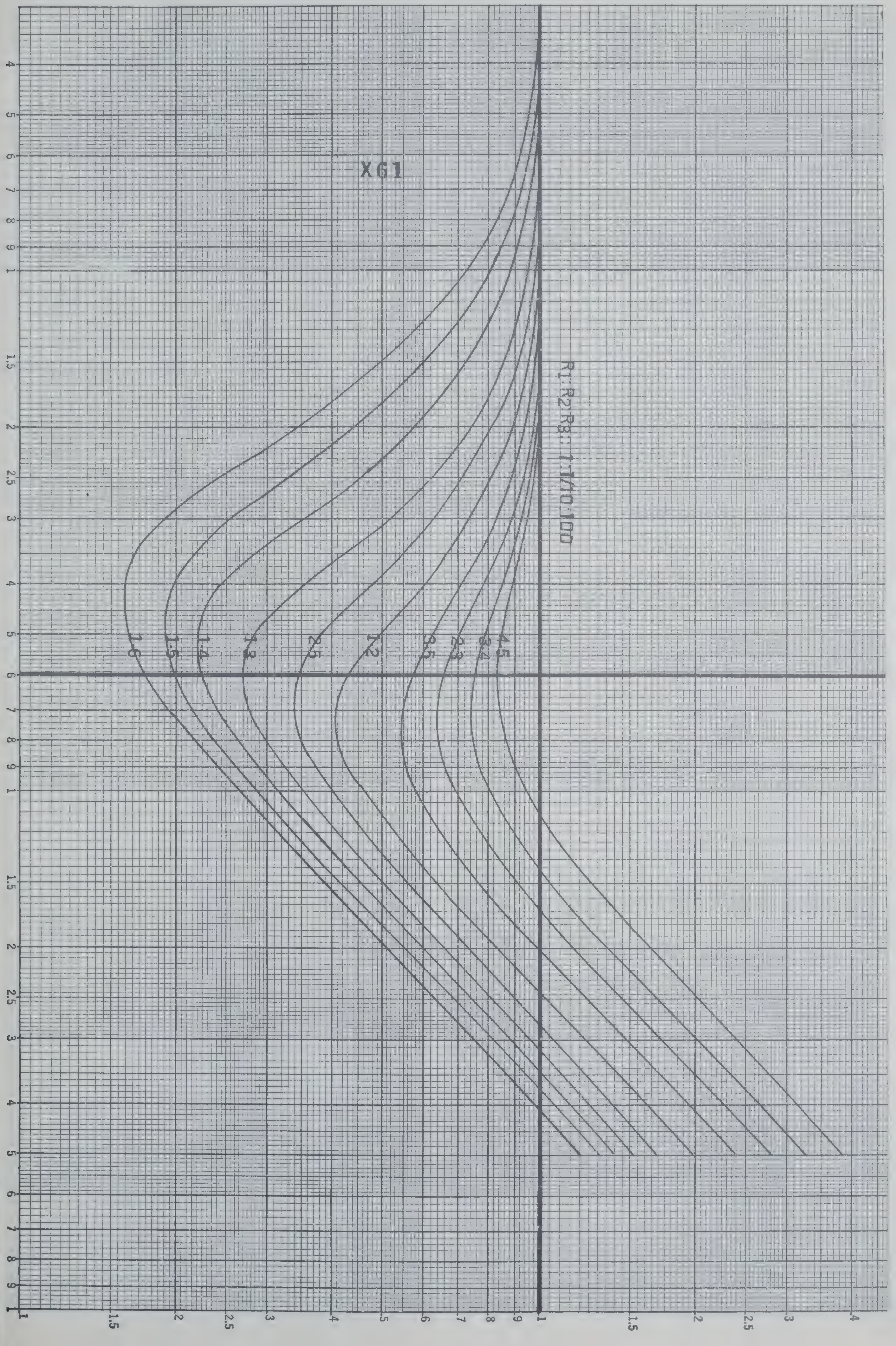

X52
R1:R2:R3::1:1/3:10

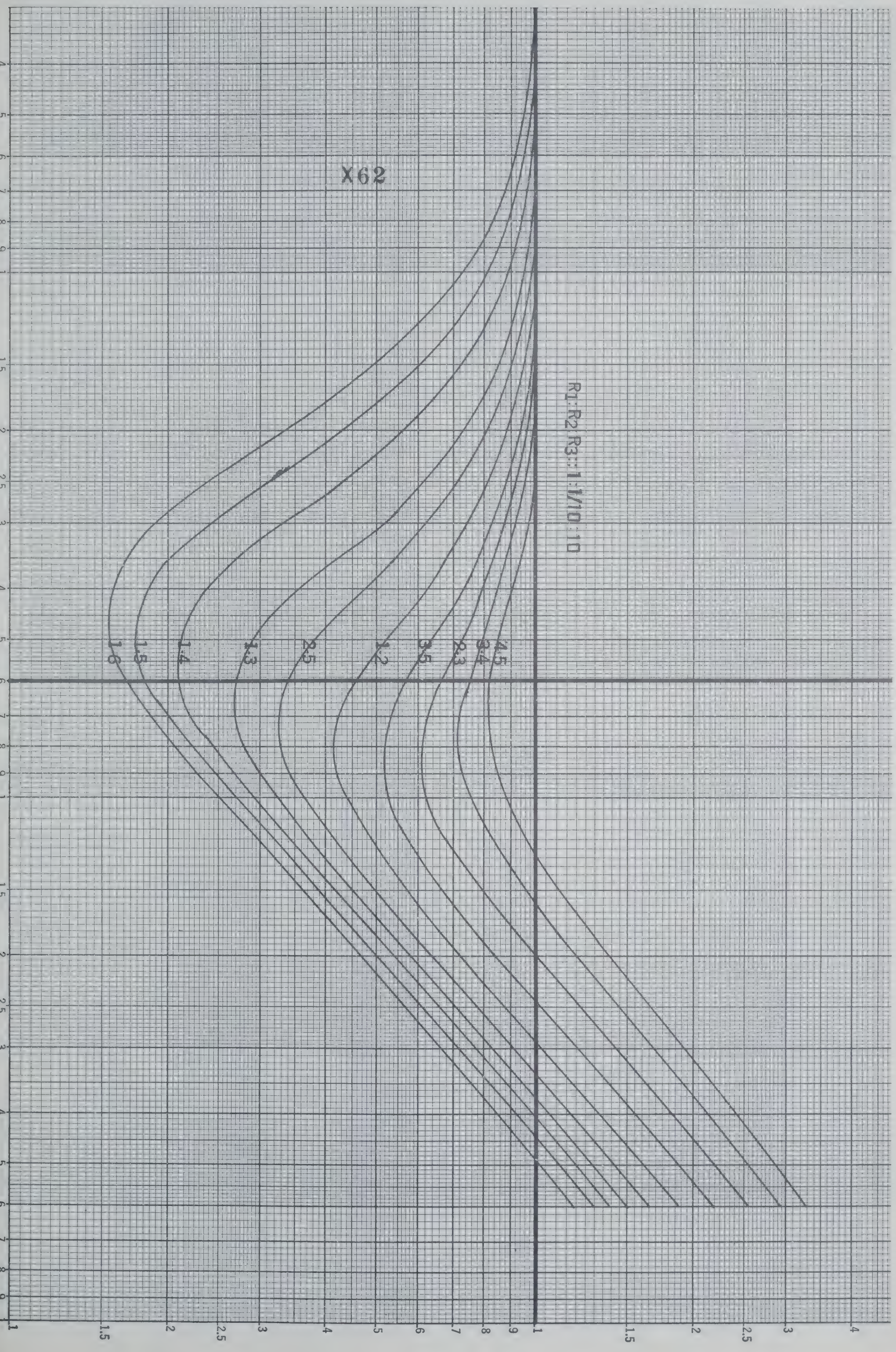

X53
R1:R2:R3 1:1/3:3

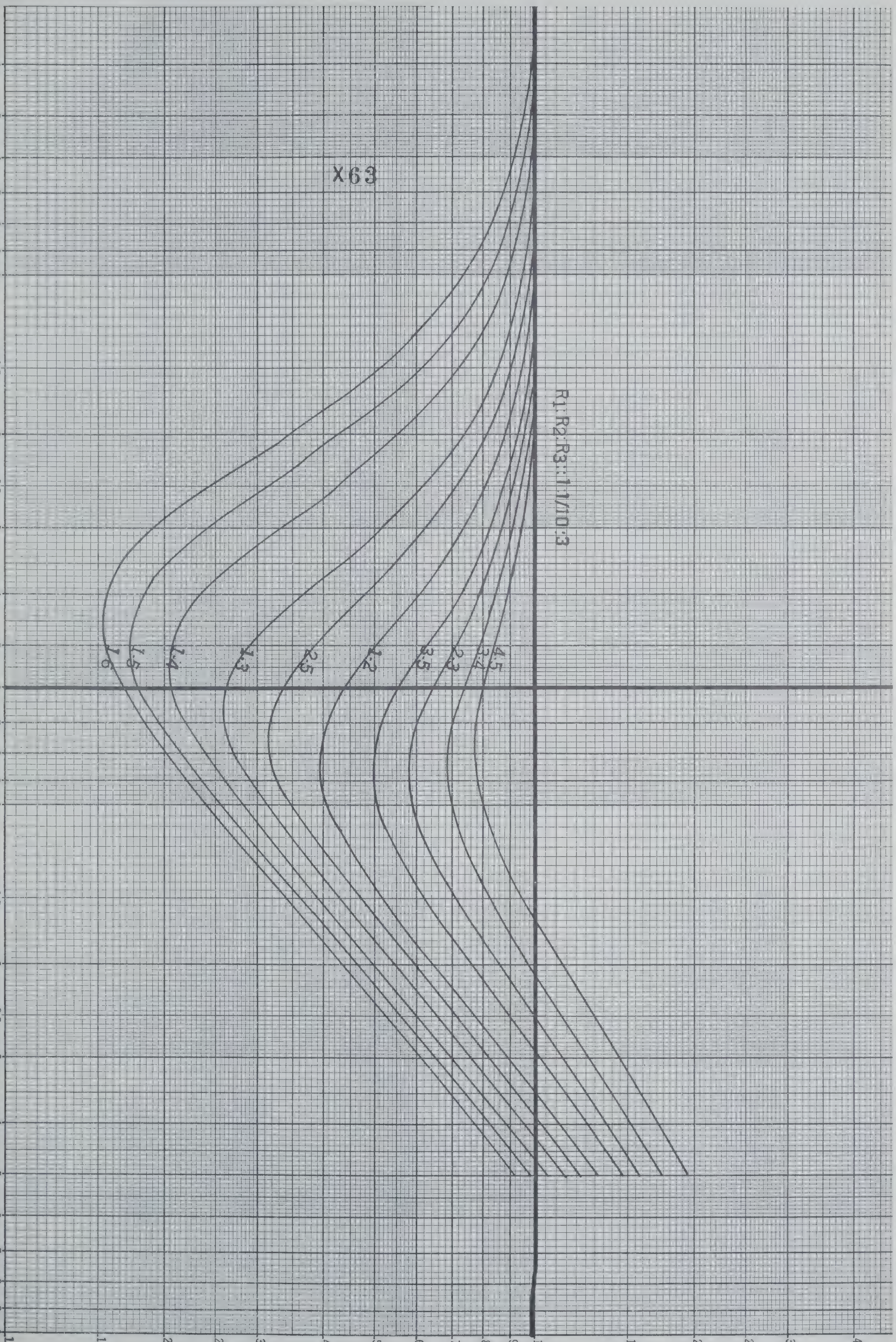

X 54
R1:R2:R3:: 1:1/3:1
D1:D2
1:6
1:5
1:4
1:3
2:5
1:2
3:5
2:3
3:4
4:5

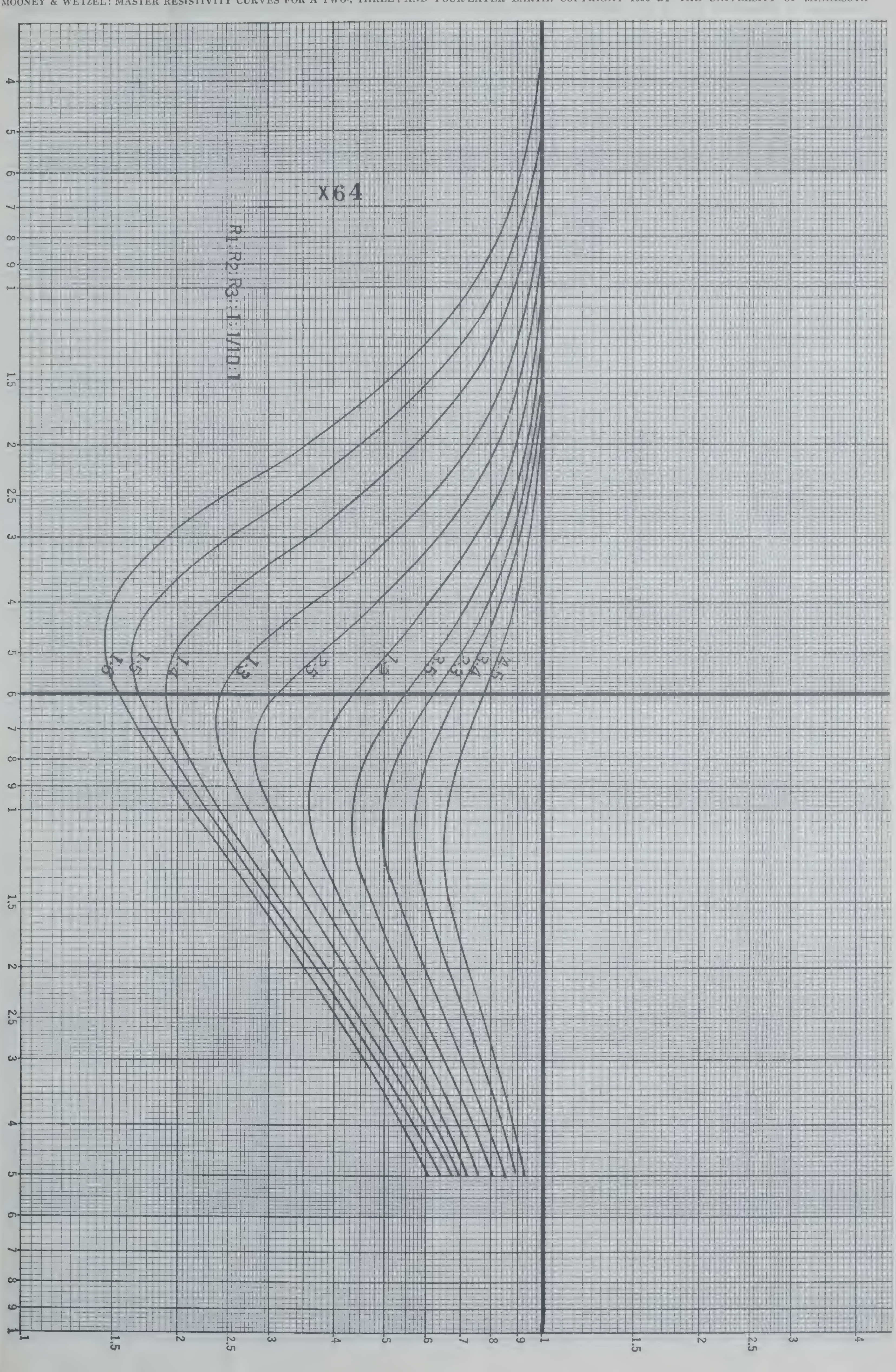

X56
R1:R2:R3::1:1/3:1/10

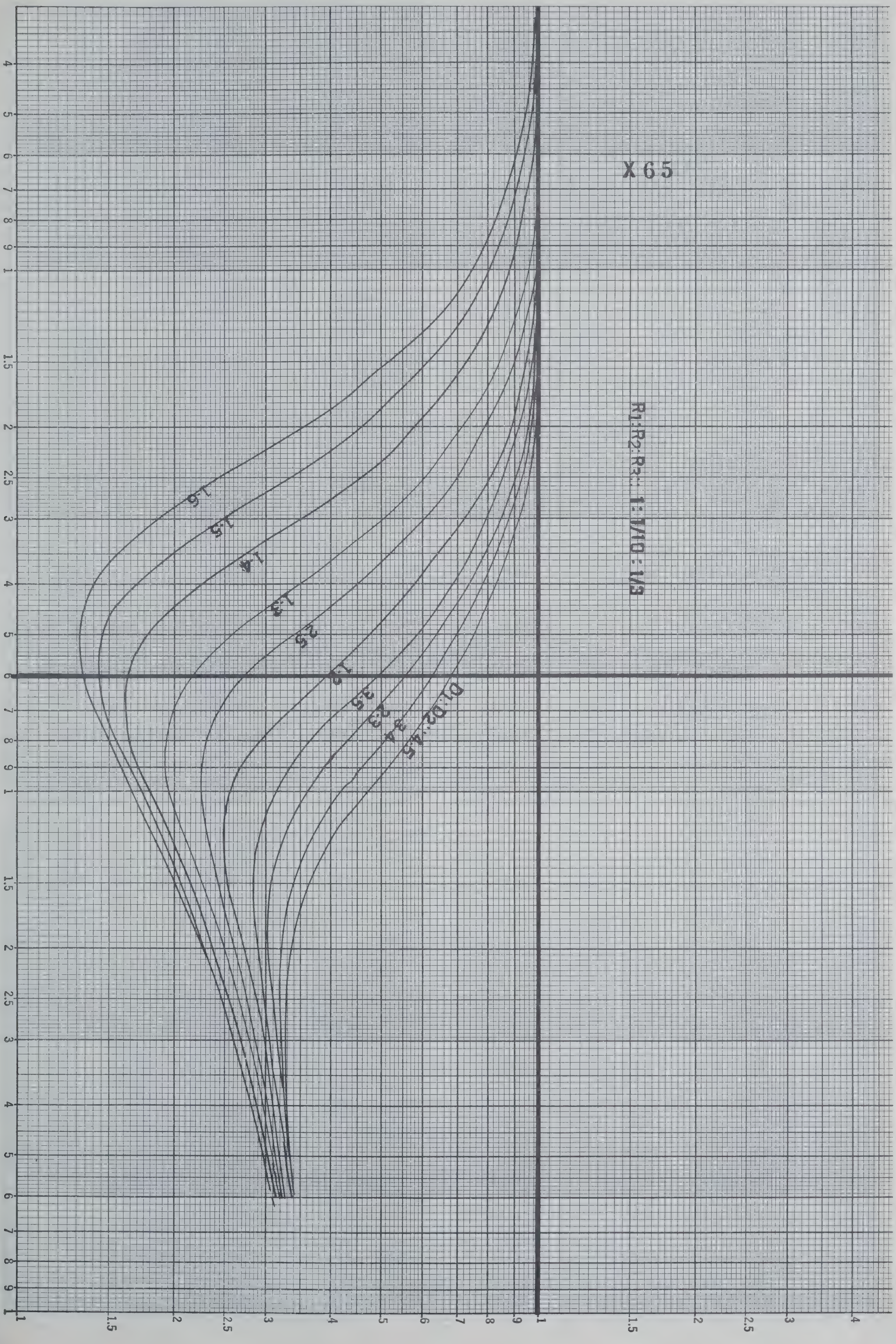

X57
R1:R2:R3 :: 1:1/3:1/10

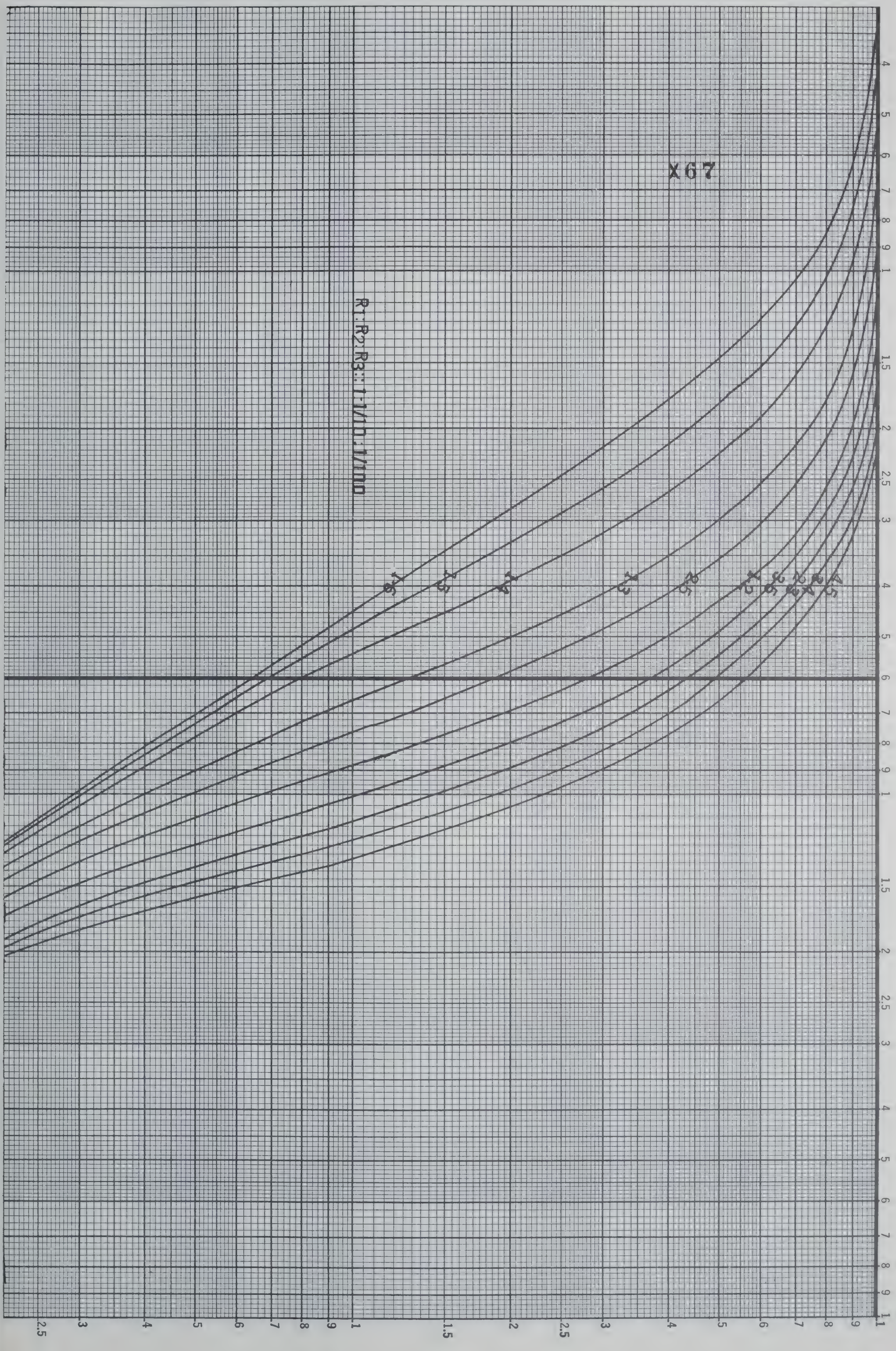

X61
R1:R2:R3 :: 1:1/10:100
1.6
1.5
1.4
1.3
2.5
1.2
3.5
2.3
3.4
4.5


X62
R1:R2:R3::1:1/10:10
1.6
1.5
1.4
1.3
2.5
1.2
3.5
2.3
3.4
4.5


X63
R1:R2:R3:1:1/10:3
1.6
1.5
1.4
1.3
2.5
1.2
3.5
2.3
3.4
4.5


X64
R1:R2:R3: 1:1/10:1


X 65
R1:R2:R3:: 1:1/10:1/3
D1:D2: 4.5
3.4
2.3
3.5
1.2
2.5
1.3
1.4
1.5
1.6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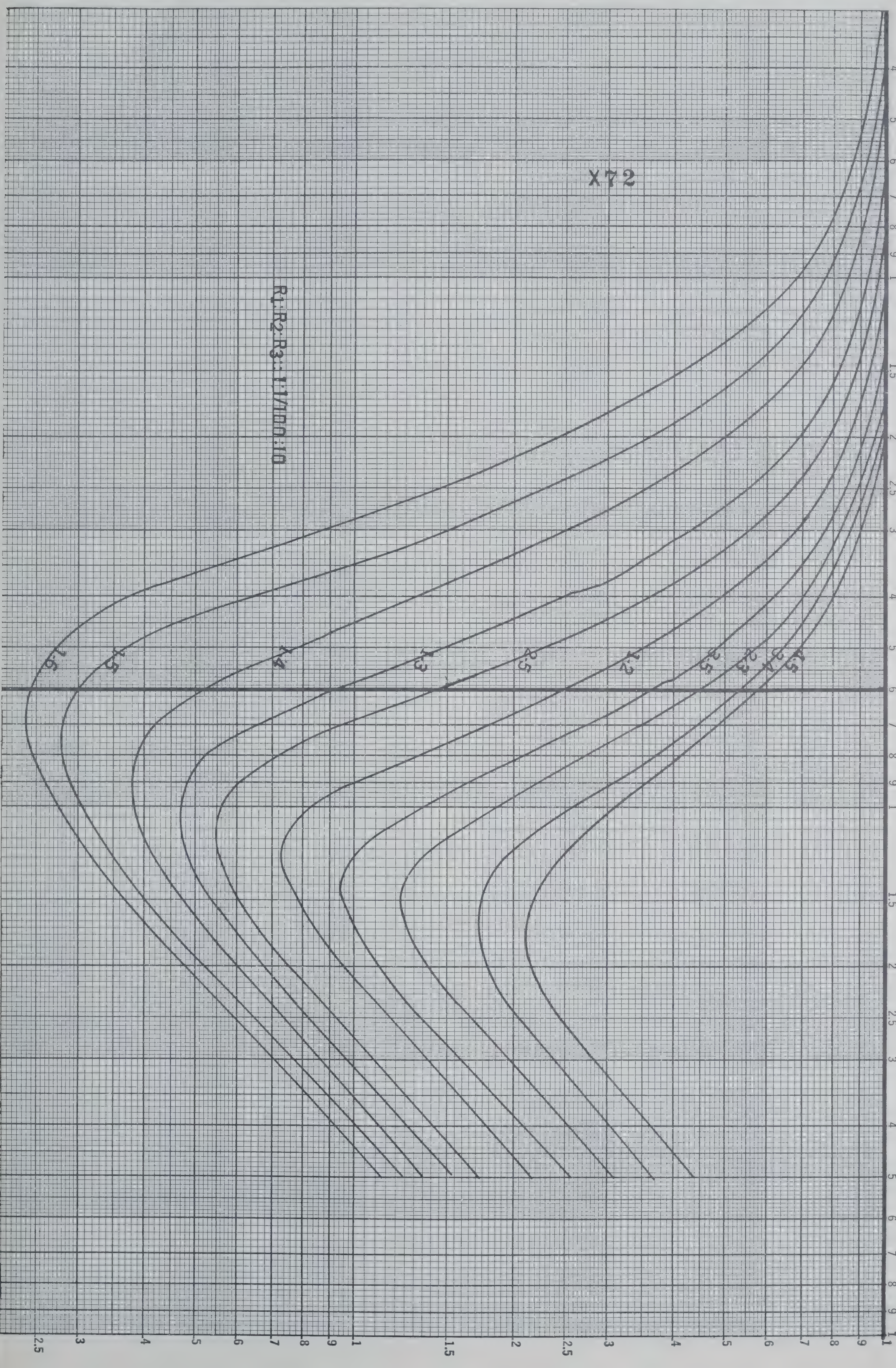
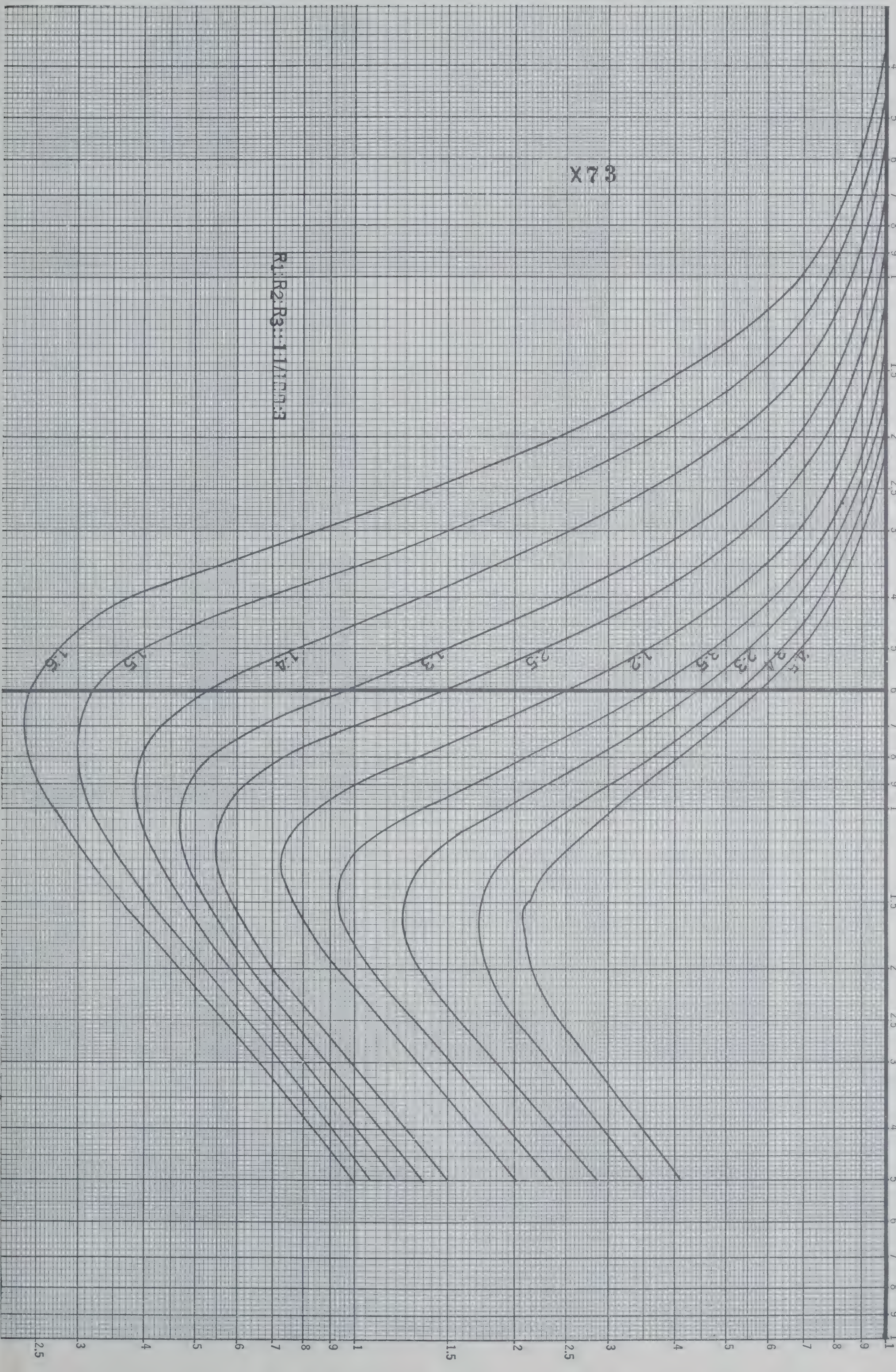
R1:R2:R3::1:1/10:1/100


X72
R1:R2:R3::1:1/100:10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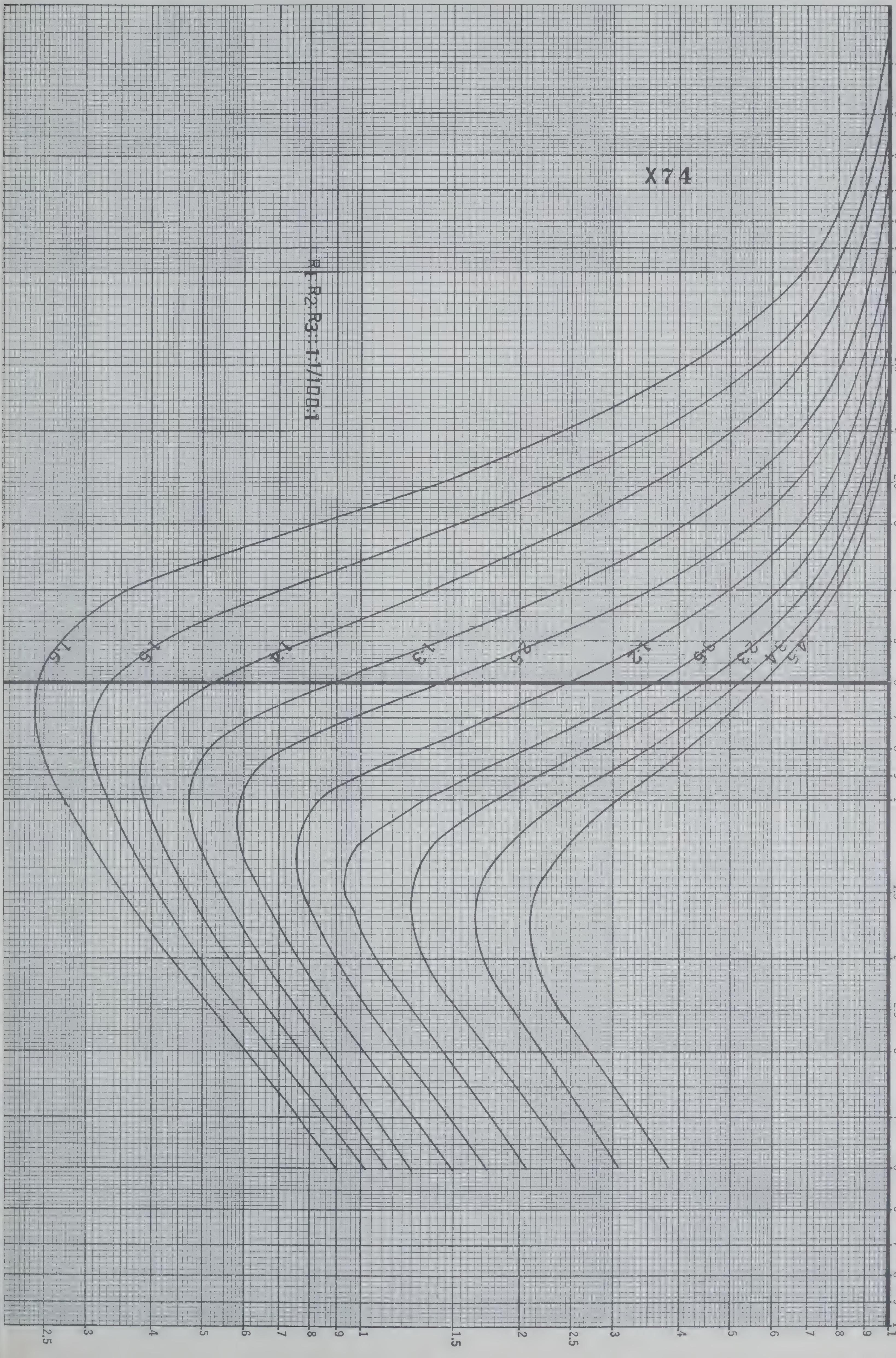
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R1:R2:R3::1:1/100:1
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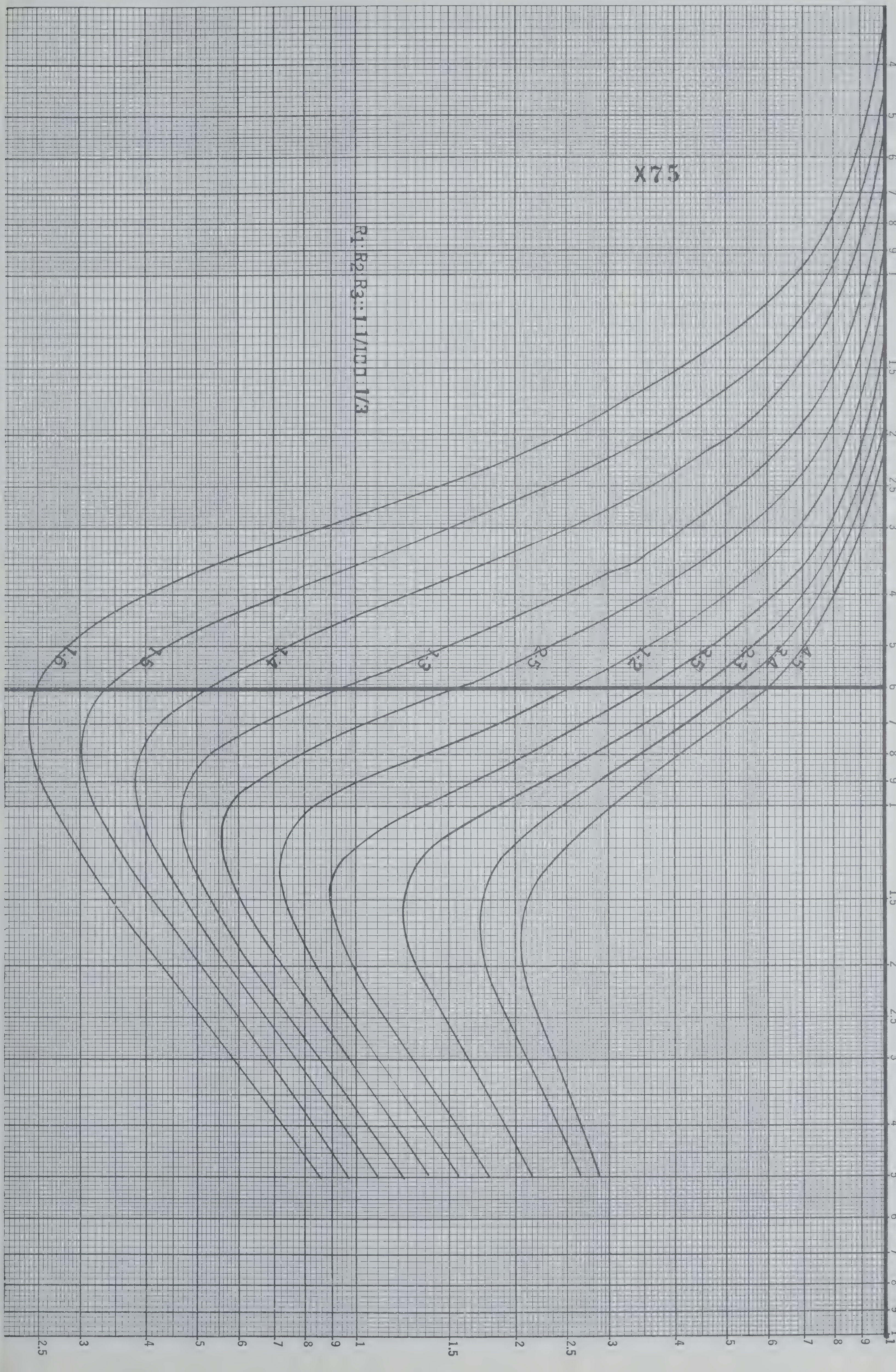
1.5
1.4
1.3
1.2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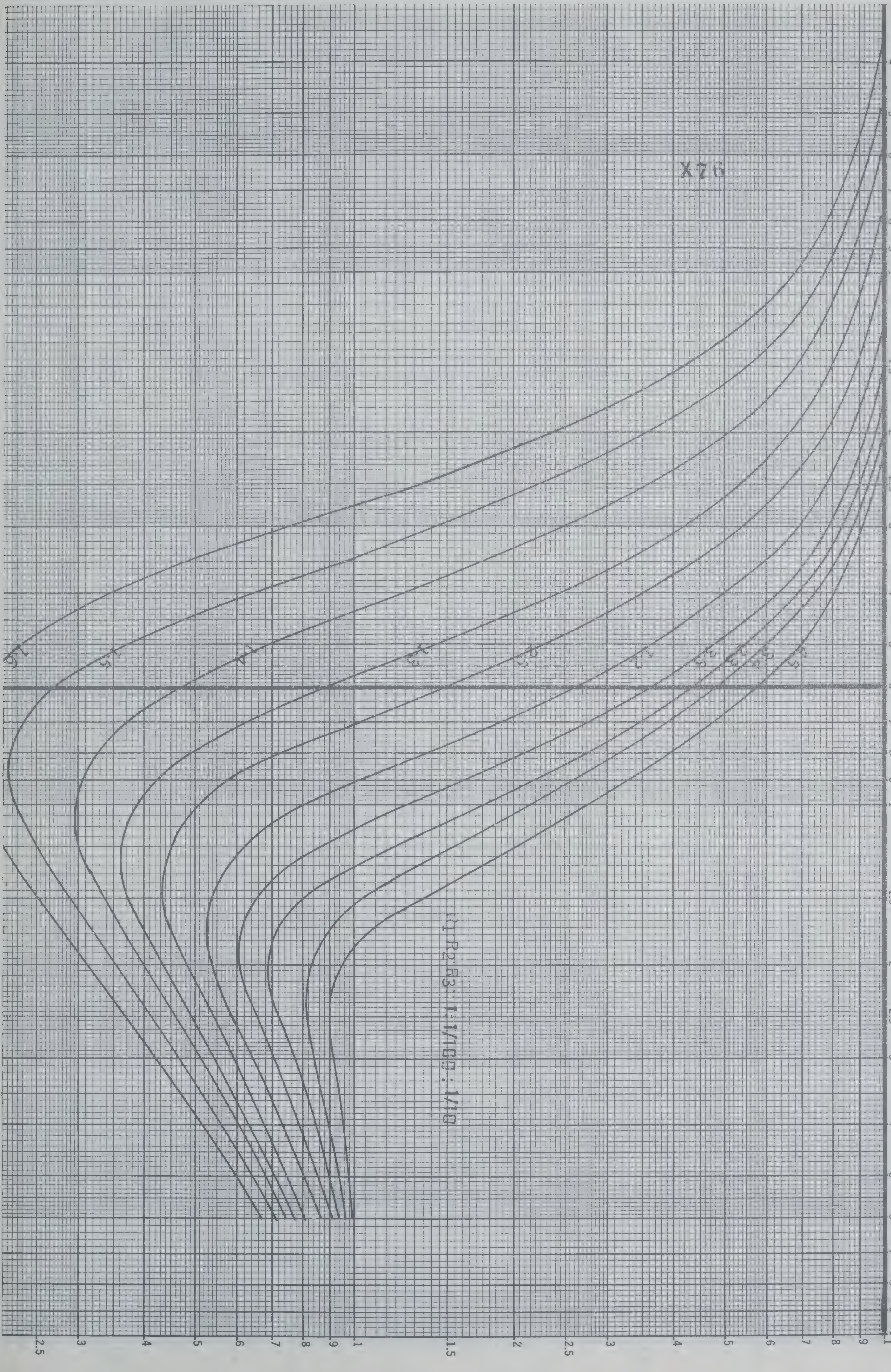
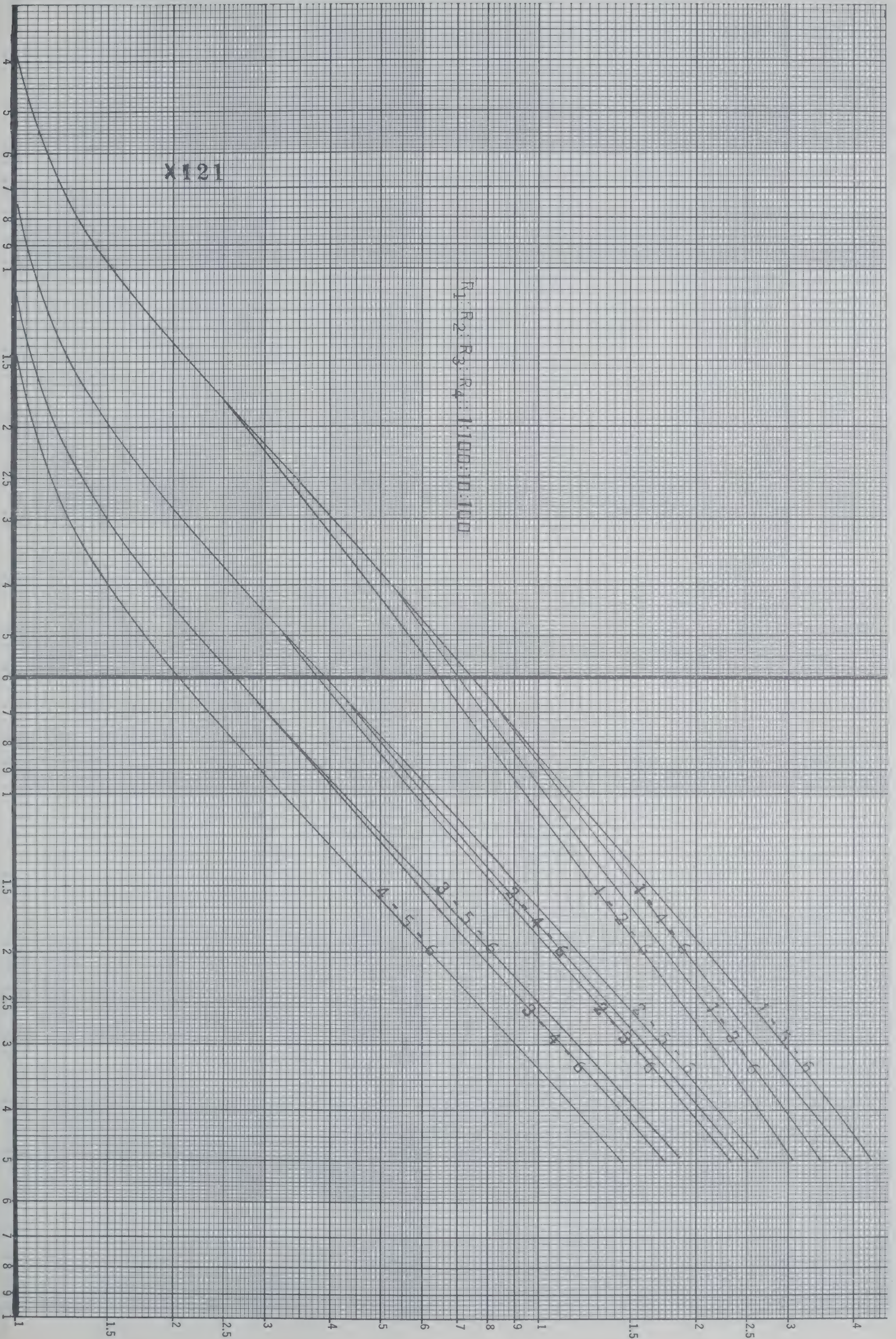

X76
R1 R2 R3 : 1 : 1/100 : 1/10


X121
R1:R2:R3:R4: 1:100:10:100
1-4-6
1-2-6
2-4-6
3-5-6
4-5-6
3-4-6
2-3-6
2-5-6
1-3-6
1-5-6
4
5
6
7
8
9
1
1.5
2
2.5
3
4
5
6
7
8
9
1
1
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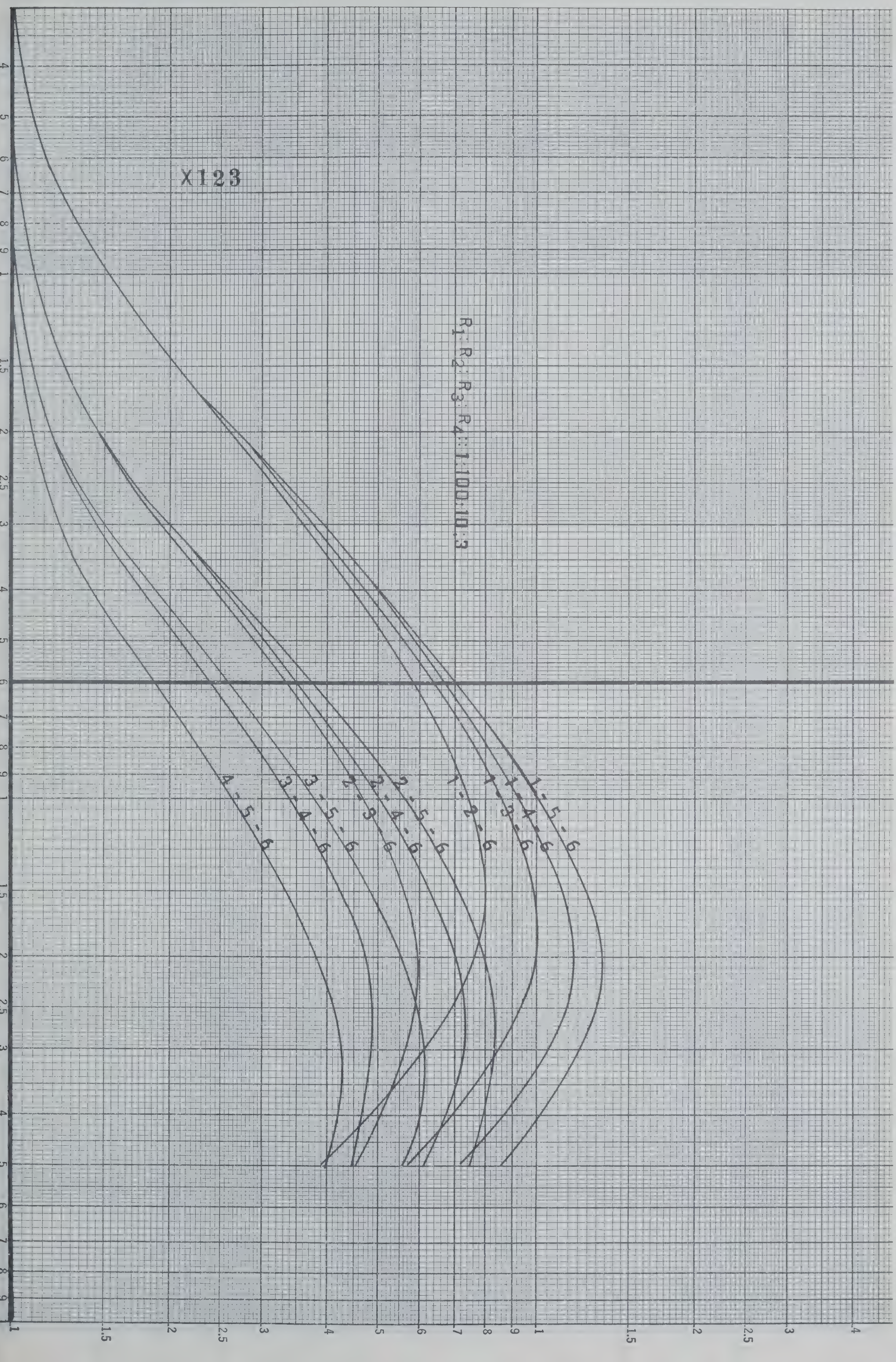
1
1.5
2
2.5
3
4


X123
R_1:R_2:R_3:R_4::1:100:10:3
1-5-6
1-4-6
1-3-6
1-2-6
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2-4-6
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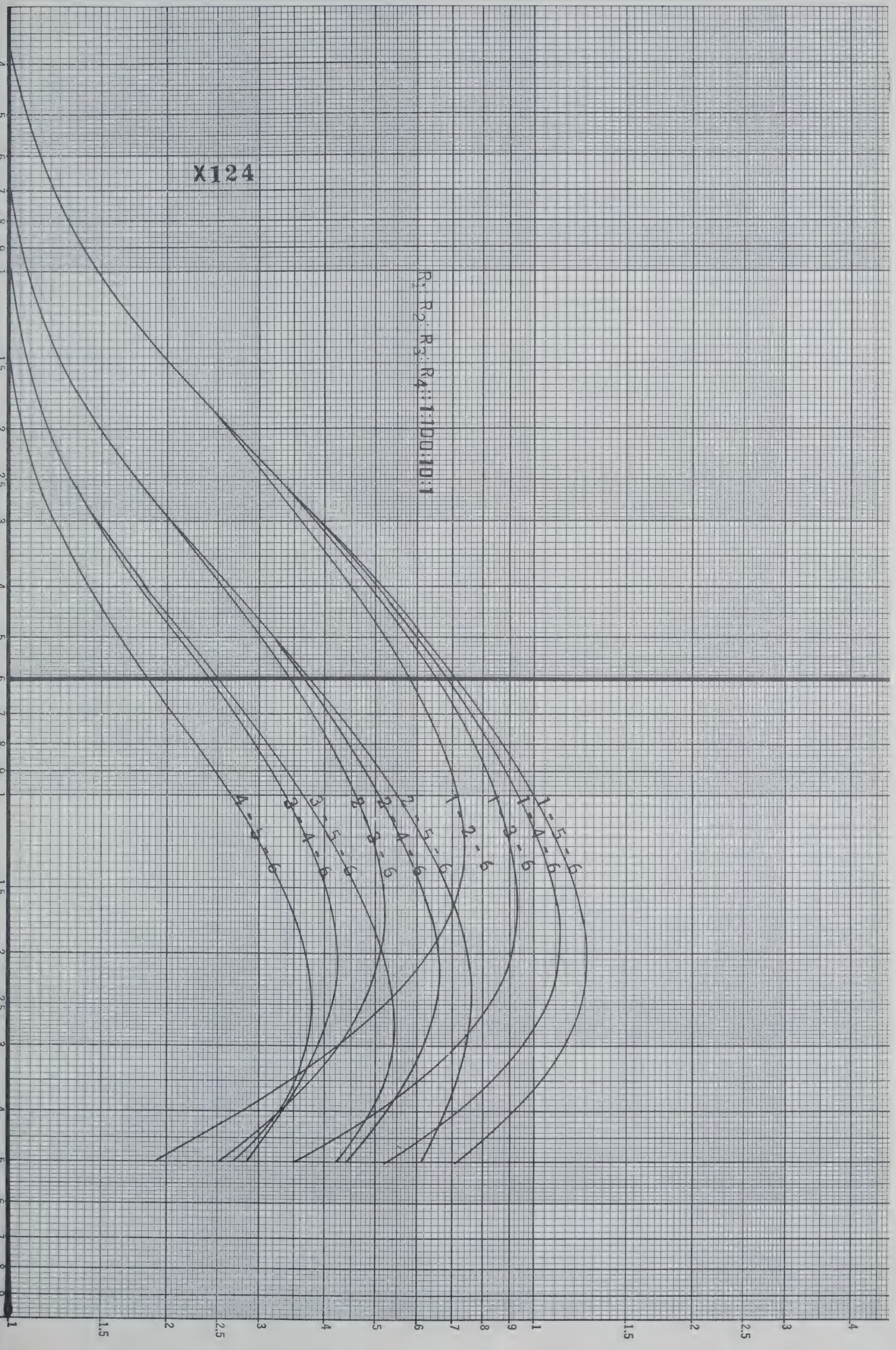
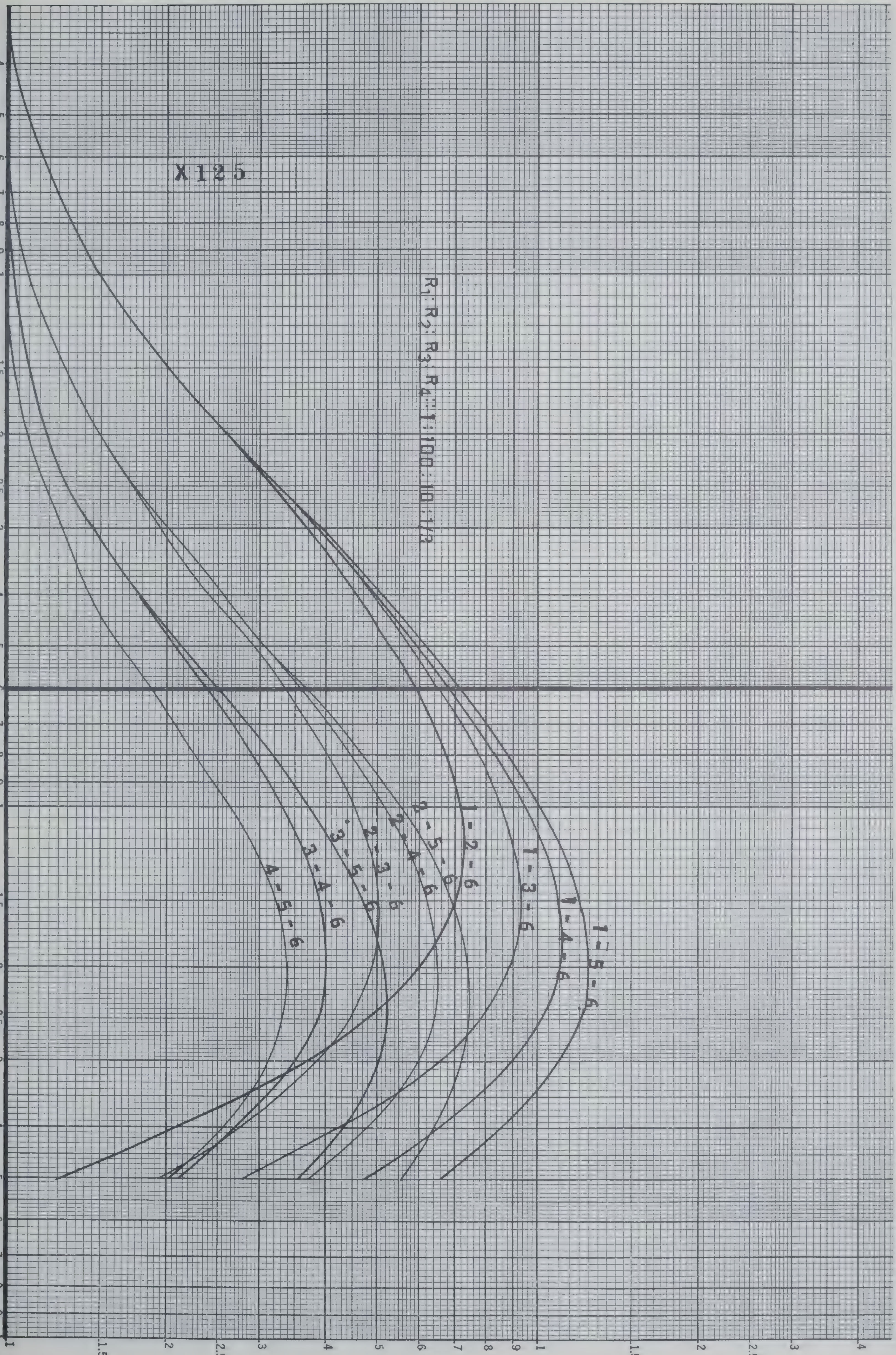
3-5-6
3-4-6
4-5-6


X124
R1: R2: R3: R4:: 1:100:10:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6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R1:R2:R3:R4::1:100:10:1/3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
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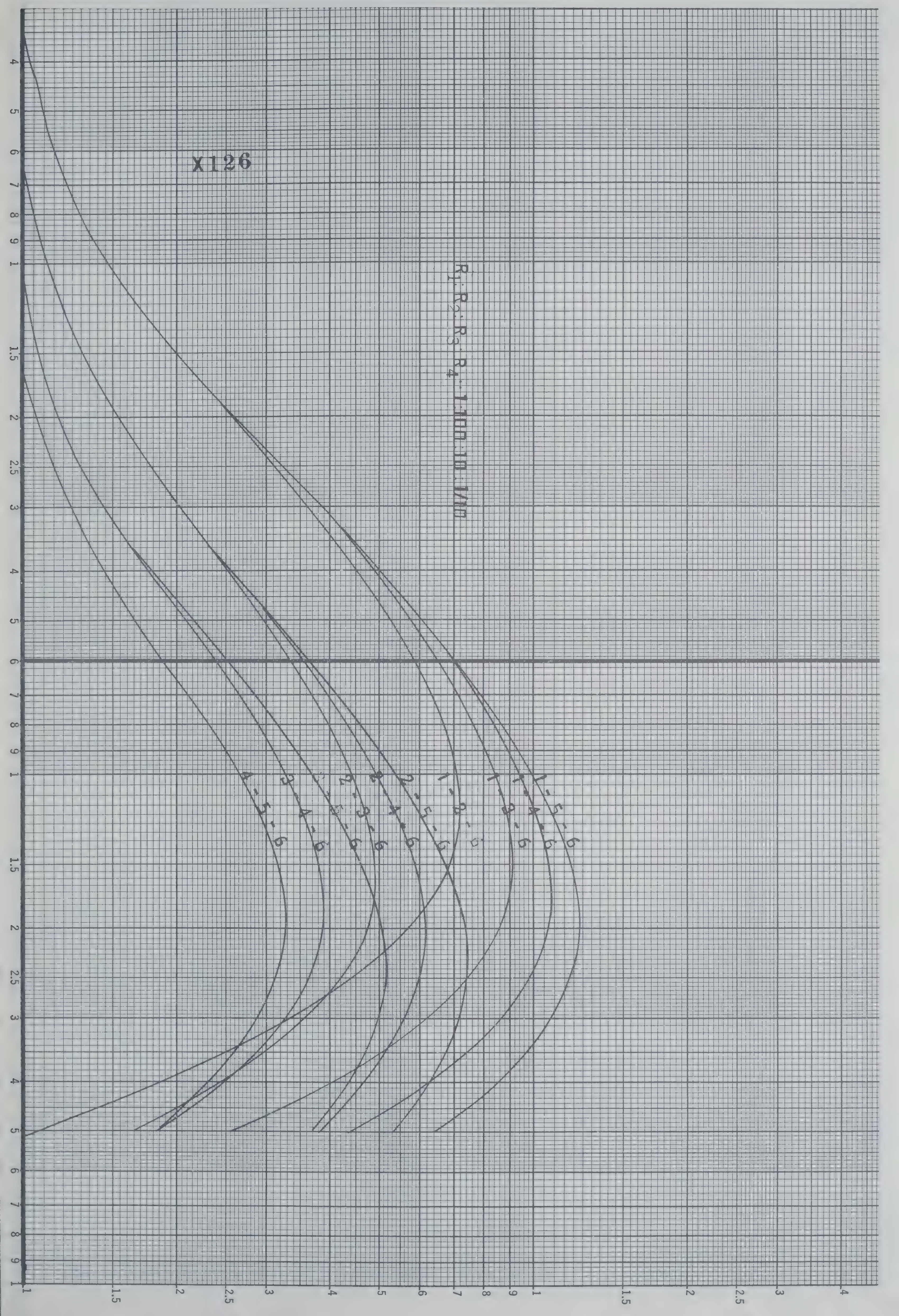
3-4-6
3-5-6
4-5-6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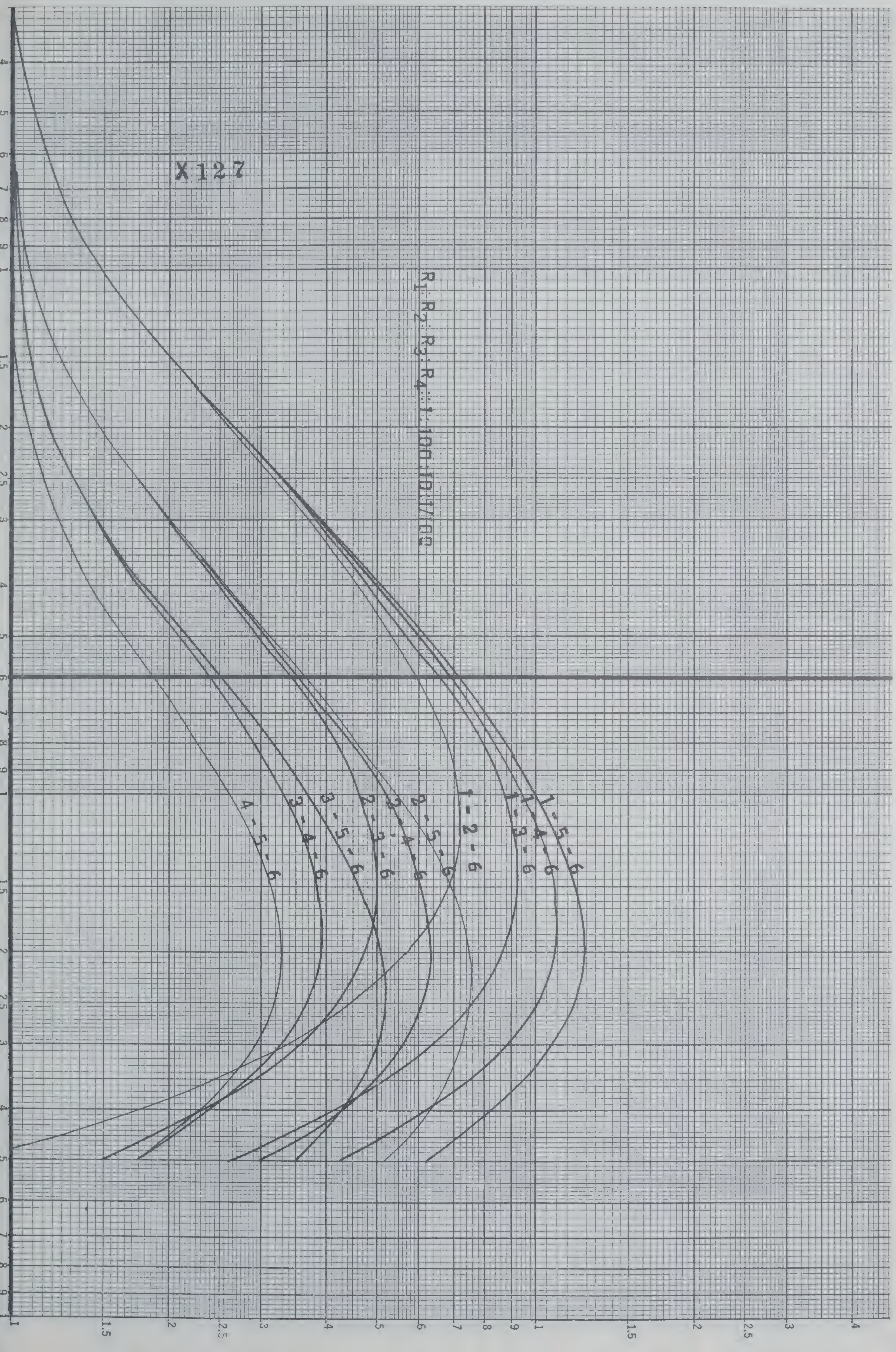
R1:R2:R3:R4 1:100:10:1/100
4-5-6
3-4-6
2-3-6
2-4-6
2-5-6
1-3-6
1-4-6
1-5-6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R1:R2:R3:R4::1:100:10:1/69
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
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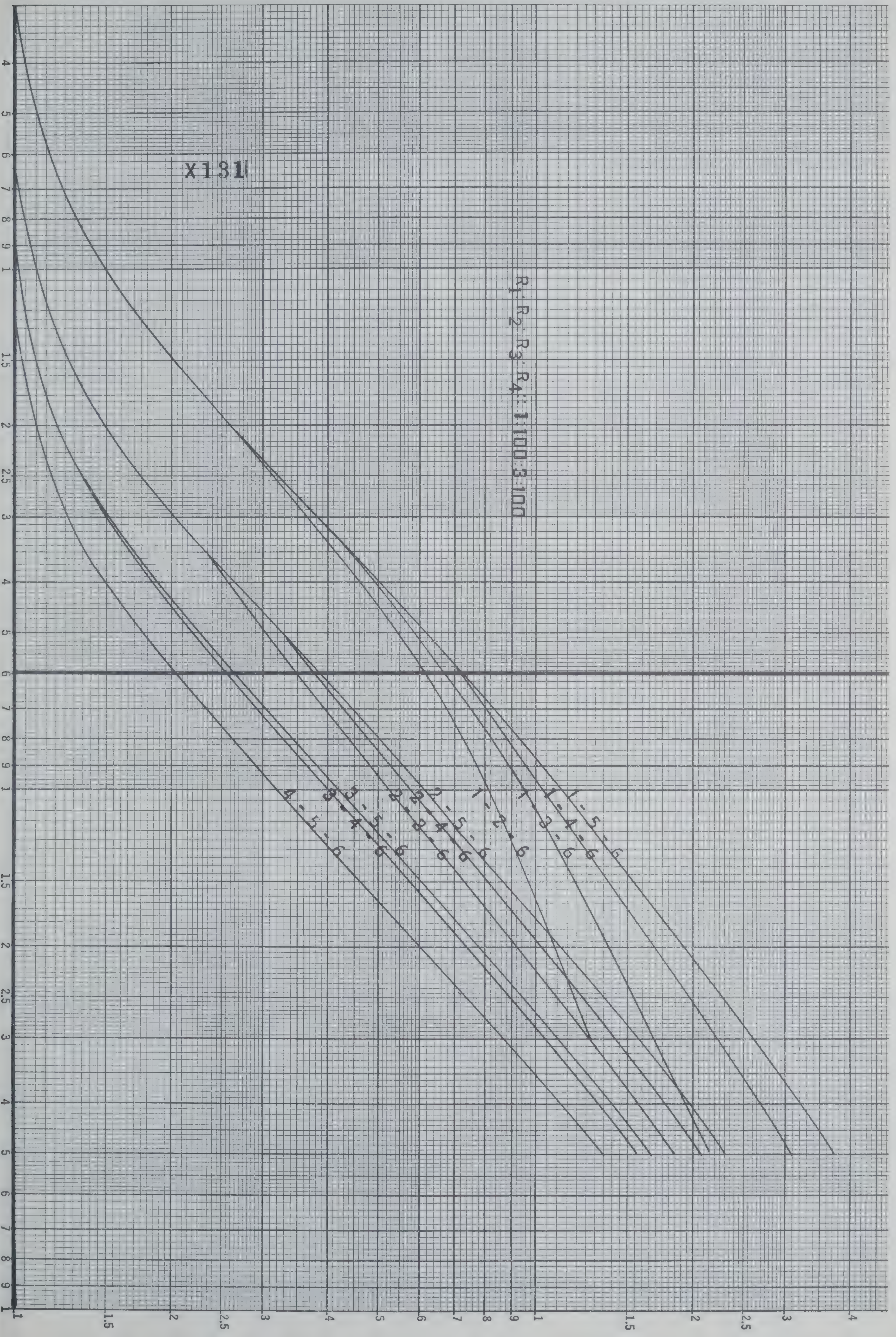
3-5-6
3-4-6
4-5-6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R1:R2:R3:R4:: 1:100:3:100
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
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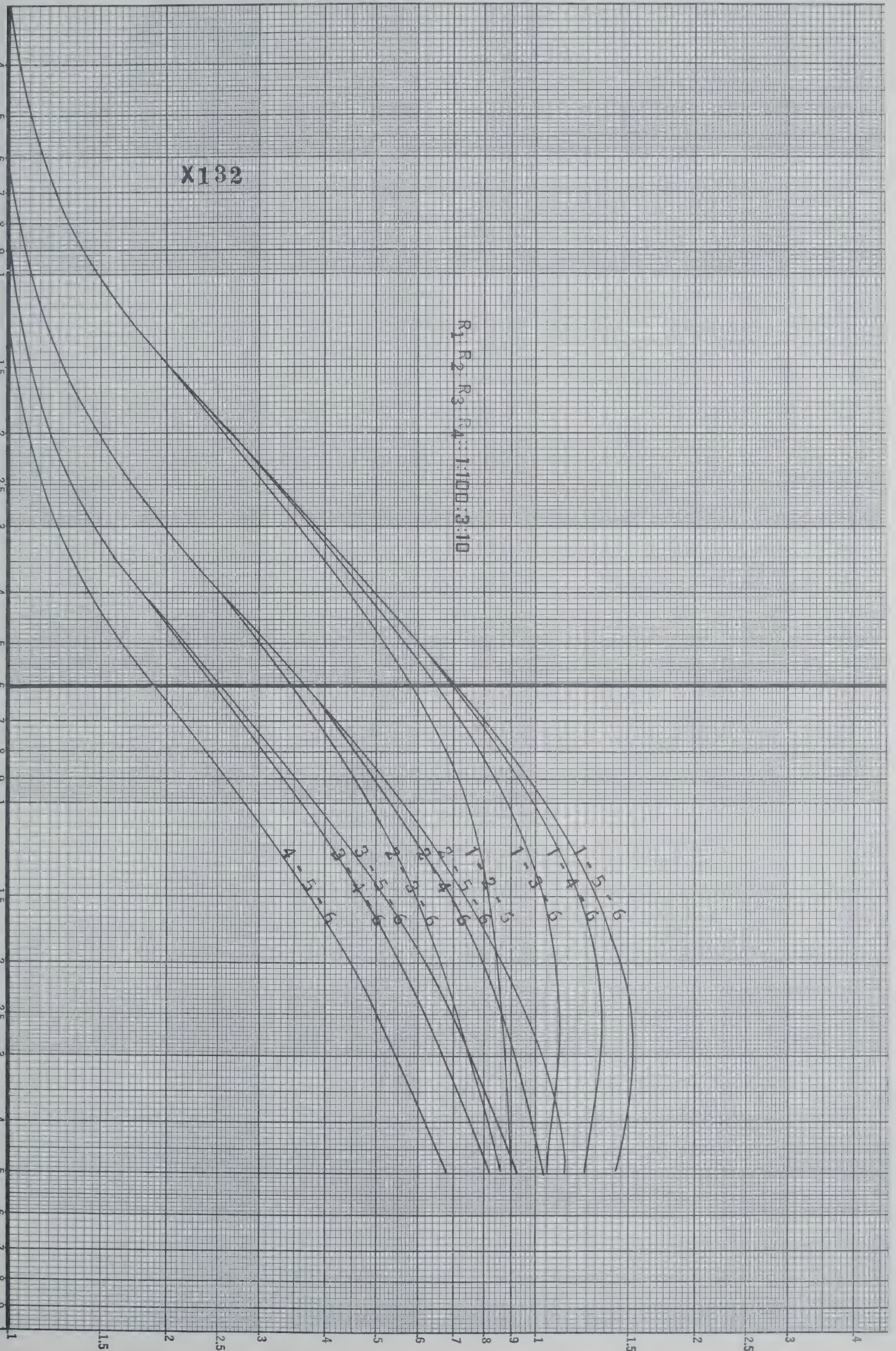
1-3-6
1-4-6
1-5-6


X132
R1:R2:R3:R4::1:100:3:10
1-5-6
1-4-6
1-3-6
1-2-5
2-5-6
2-4-6
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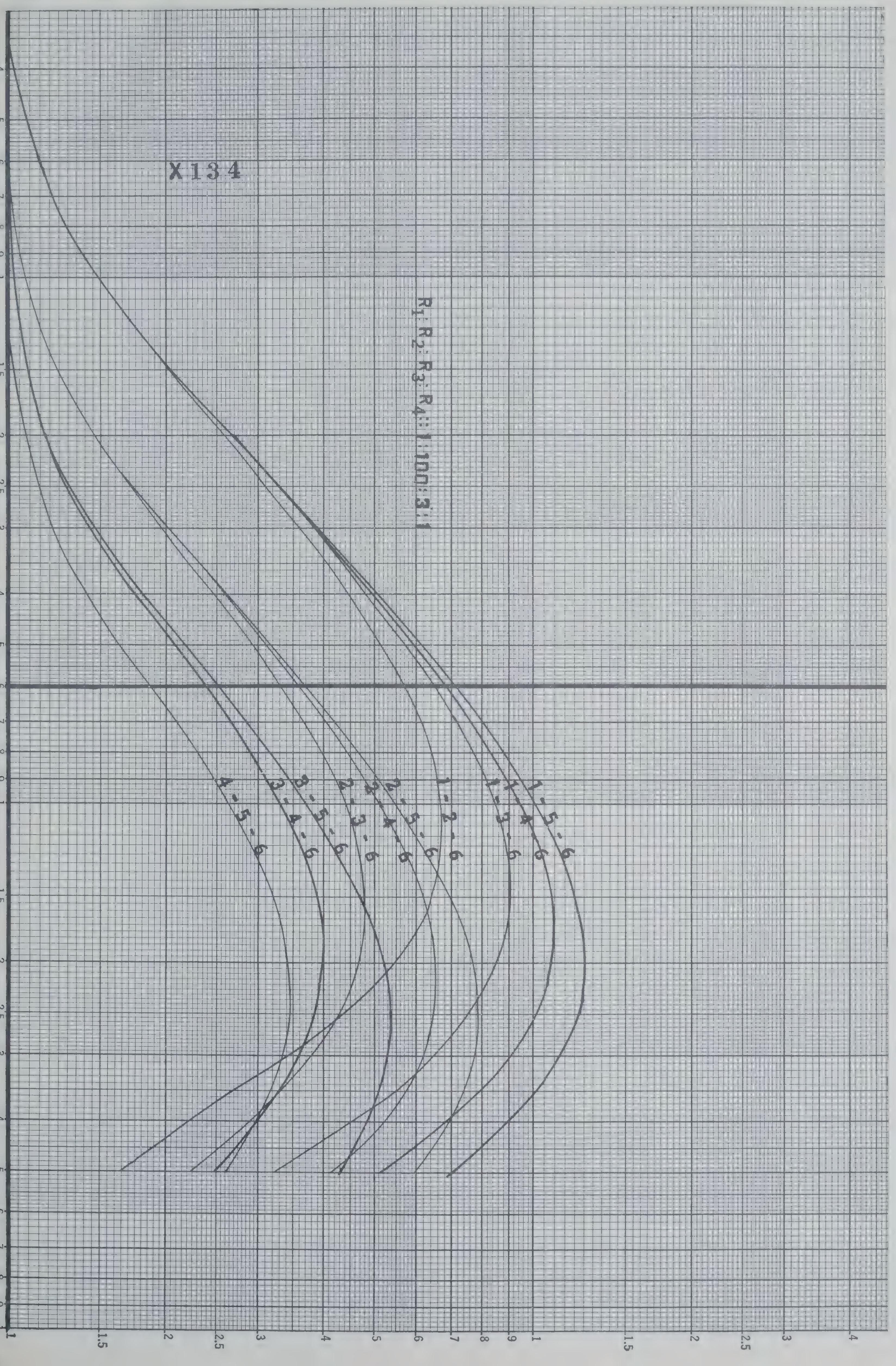
3-5-6
3-4-6
4-5-6


X134
R1:R2:R3:R4::1:100:3:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
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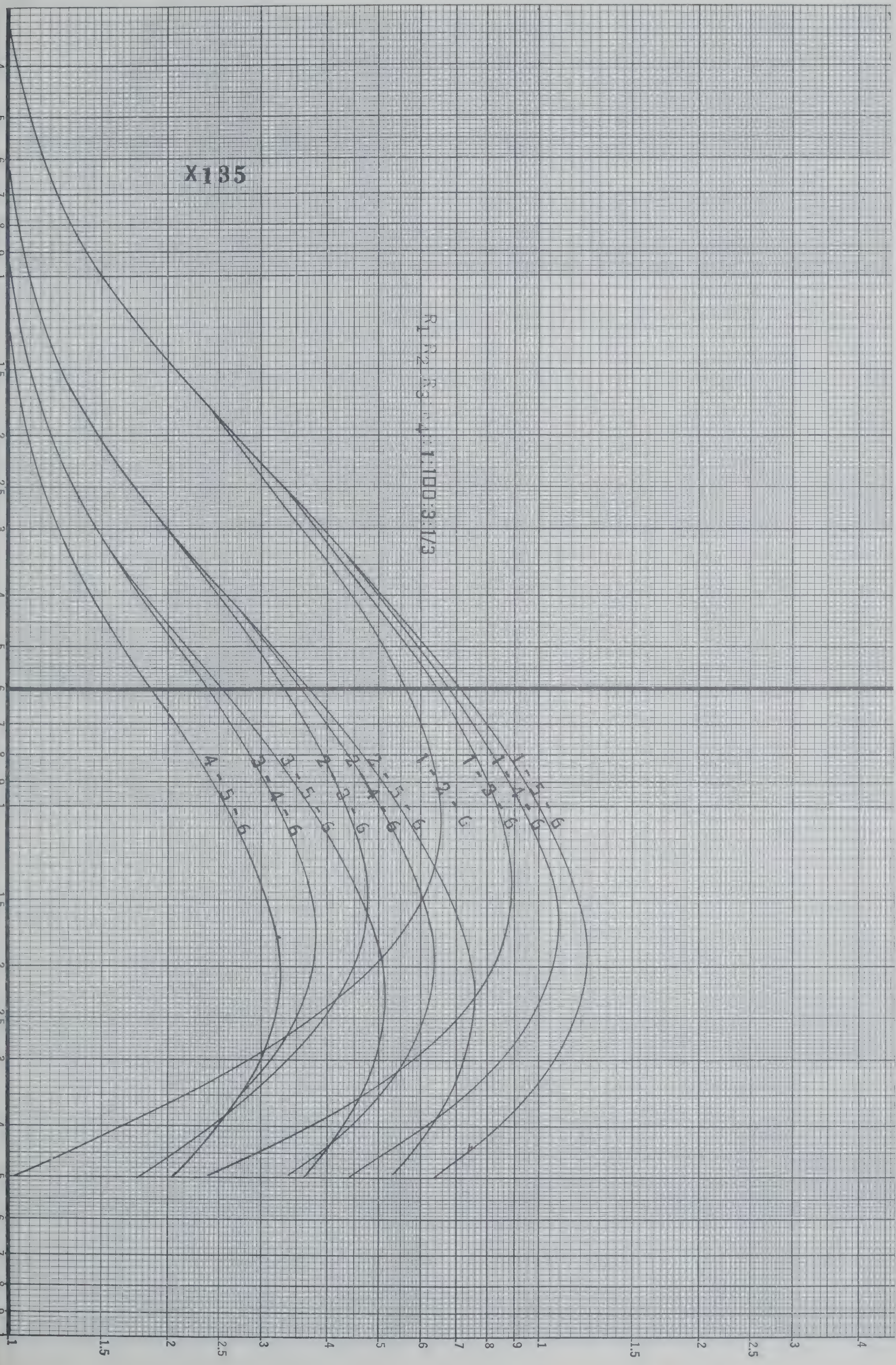
3-5-6
3-4-6
4-5-6


X135
R1 R2 R3 R4 1:100:3:1/3
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

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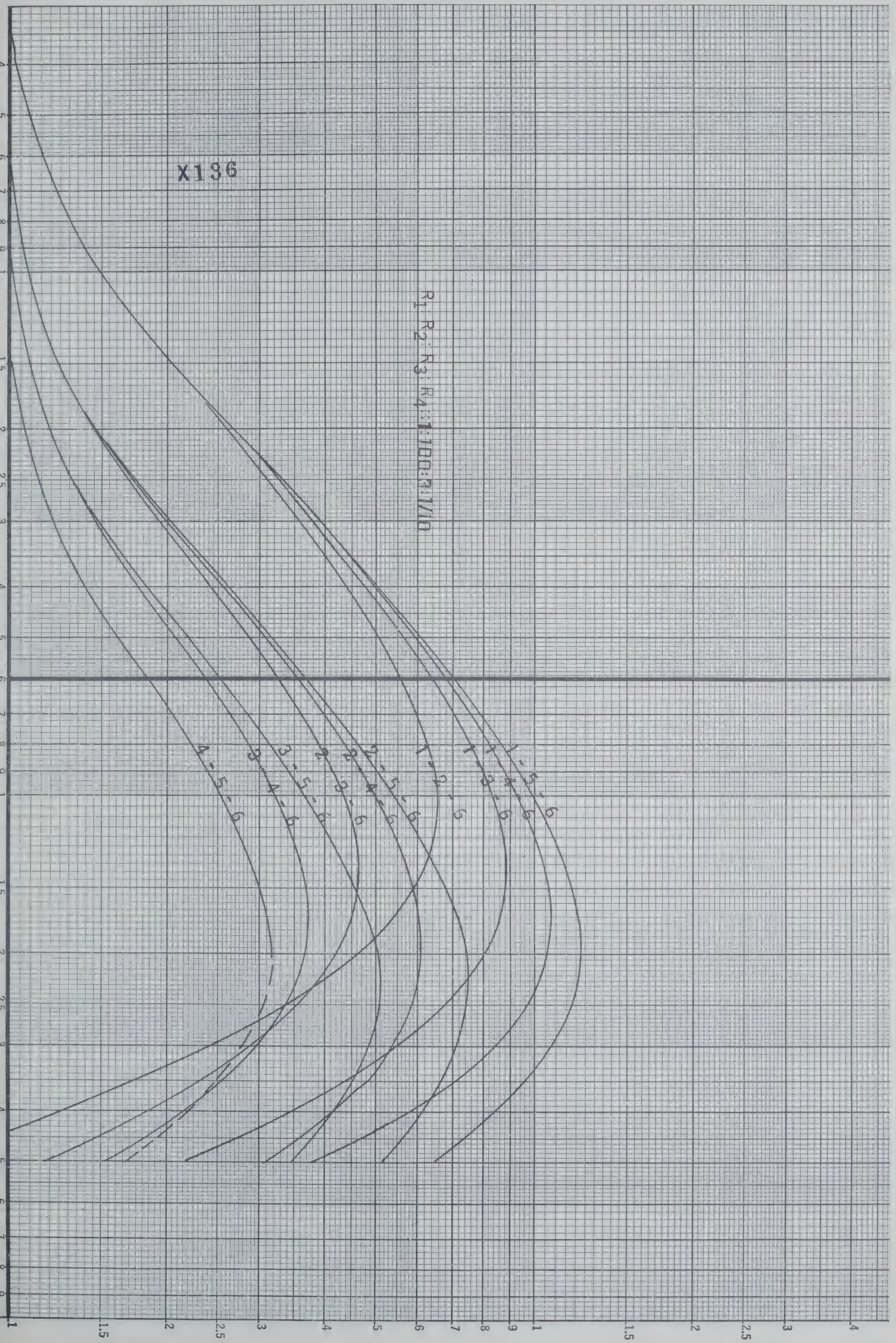

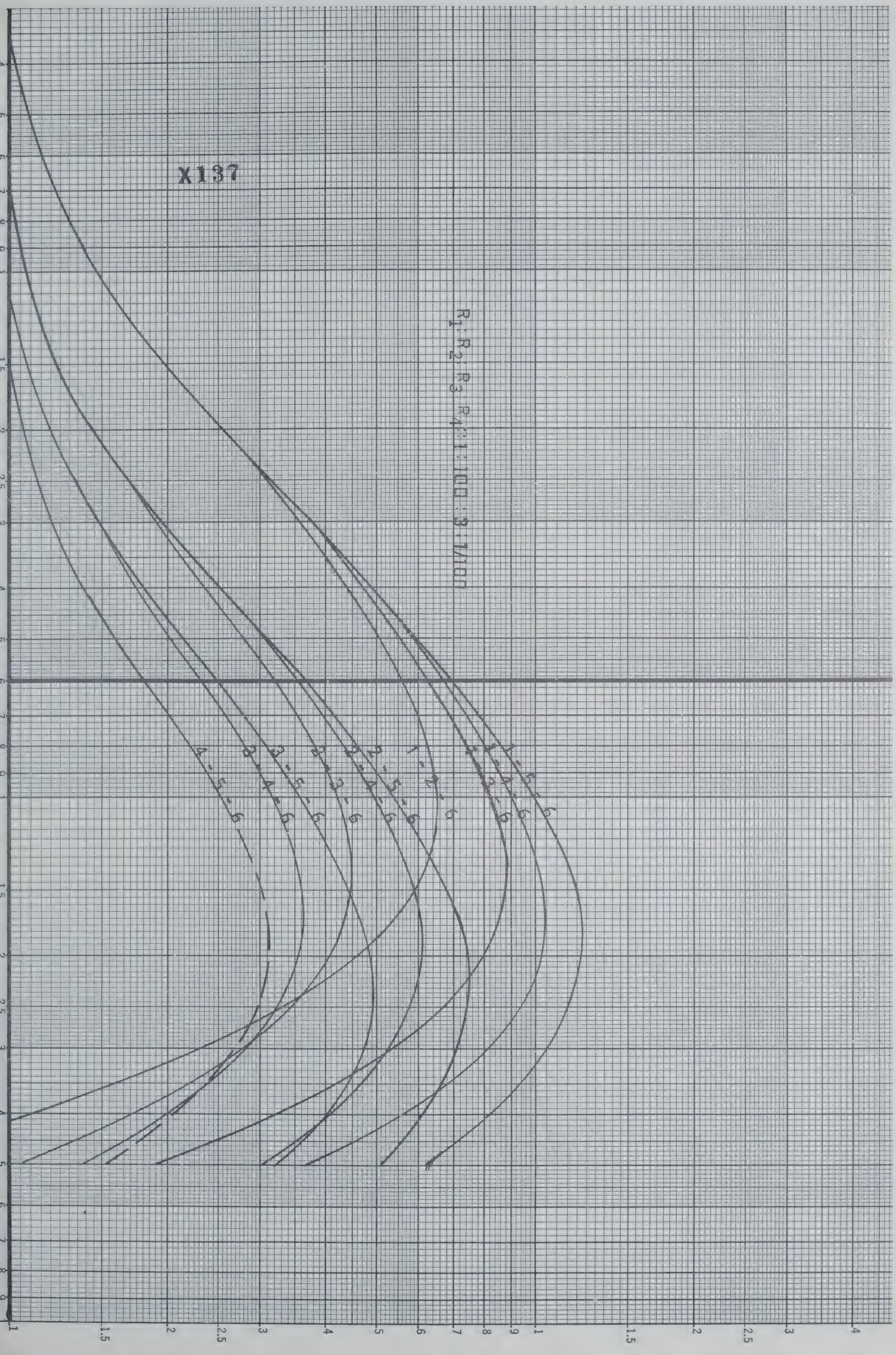
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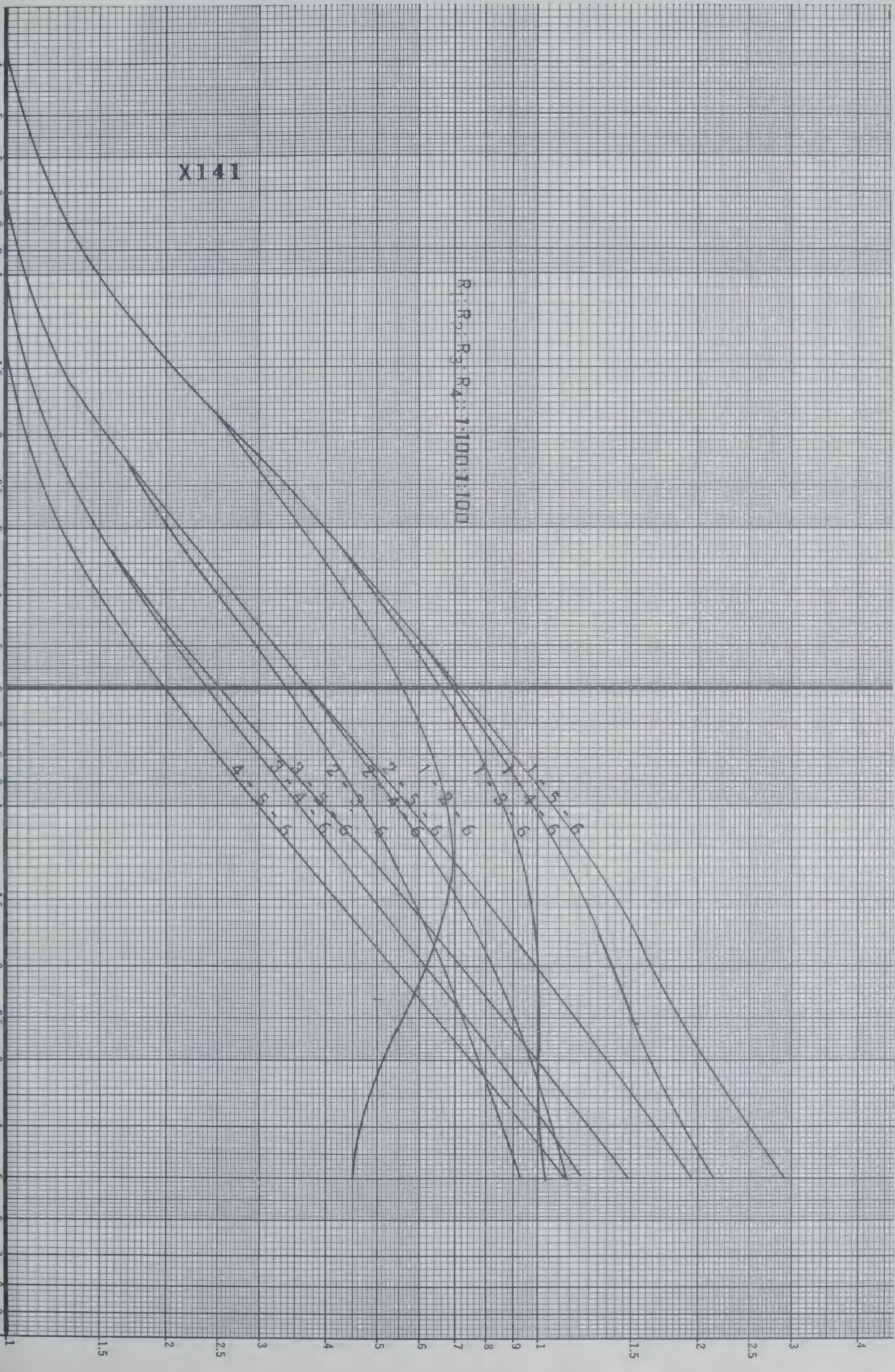
X141
R1:R2:R3:R4::1:100:1:100
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
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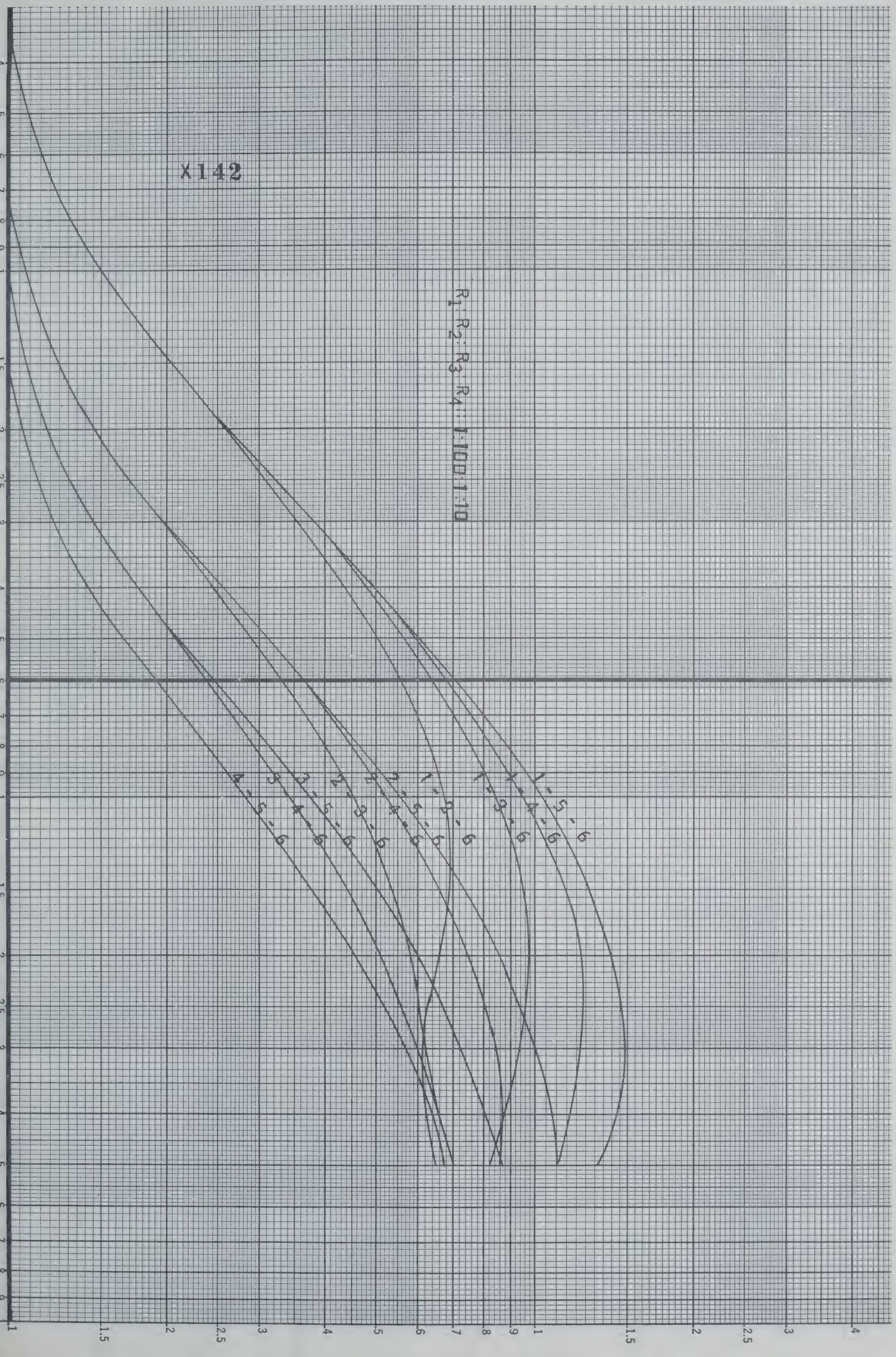
1-3-6
1-4-6
1-5-6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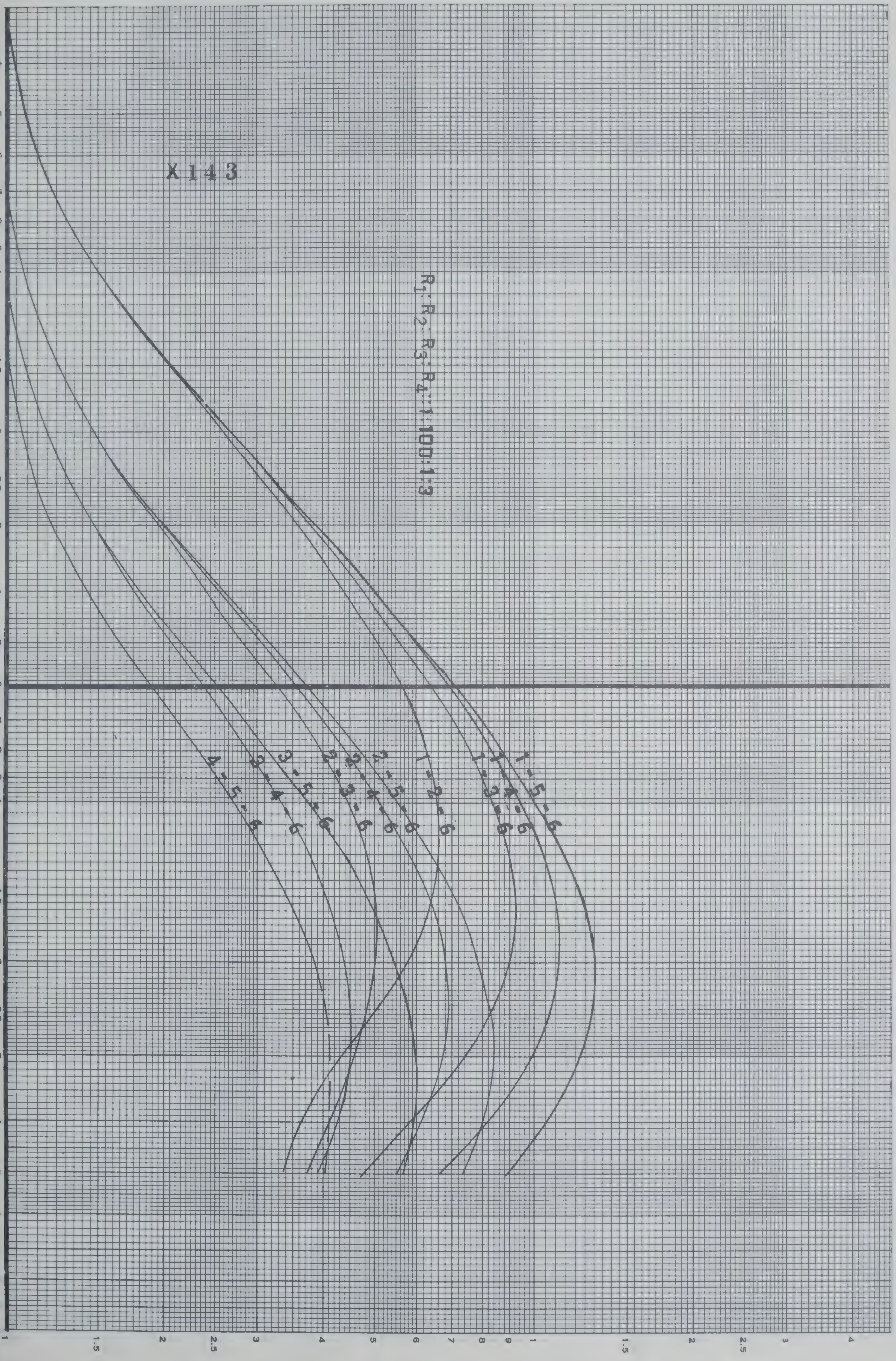
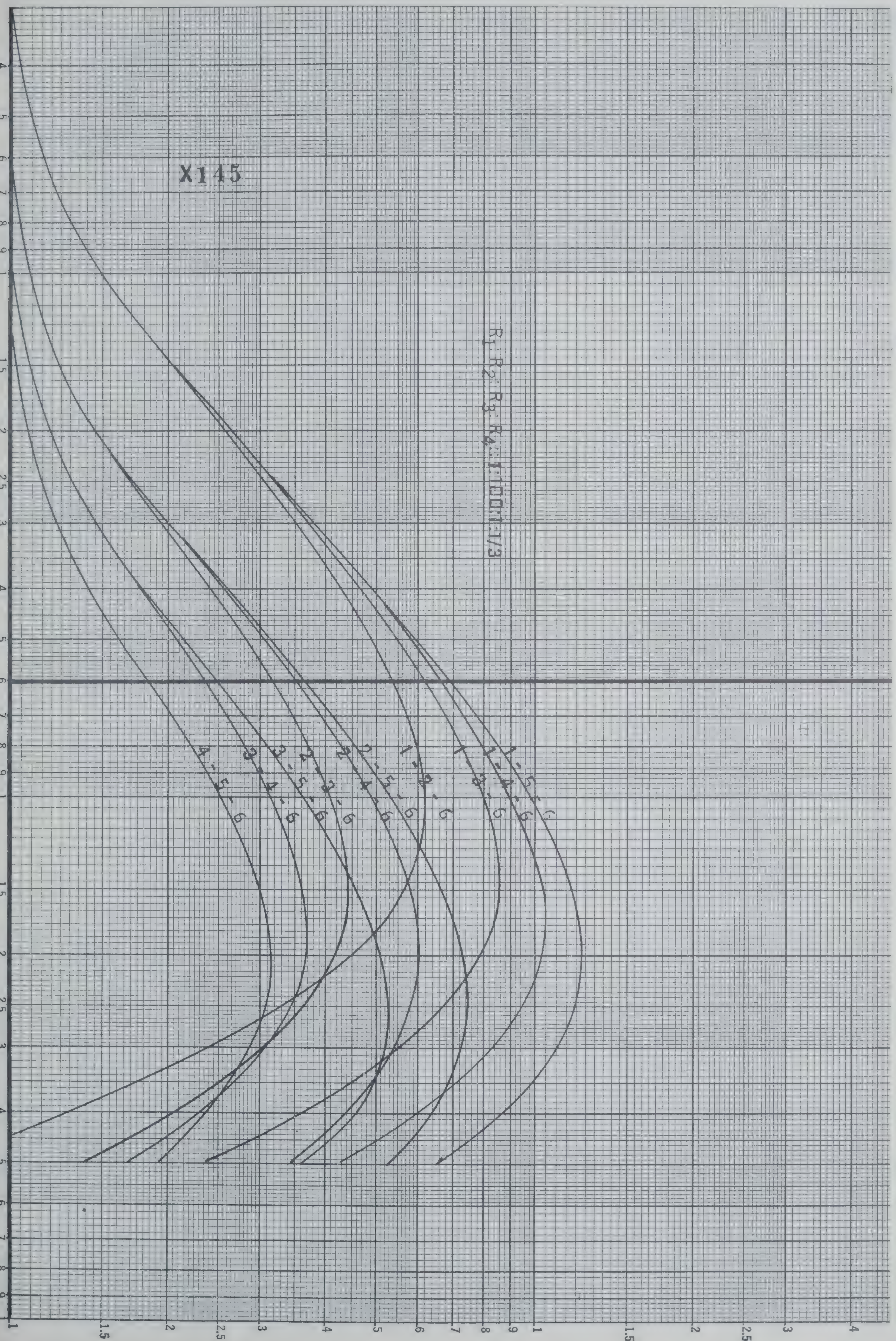
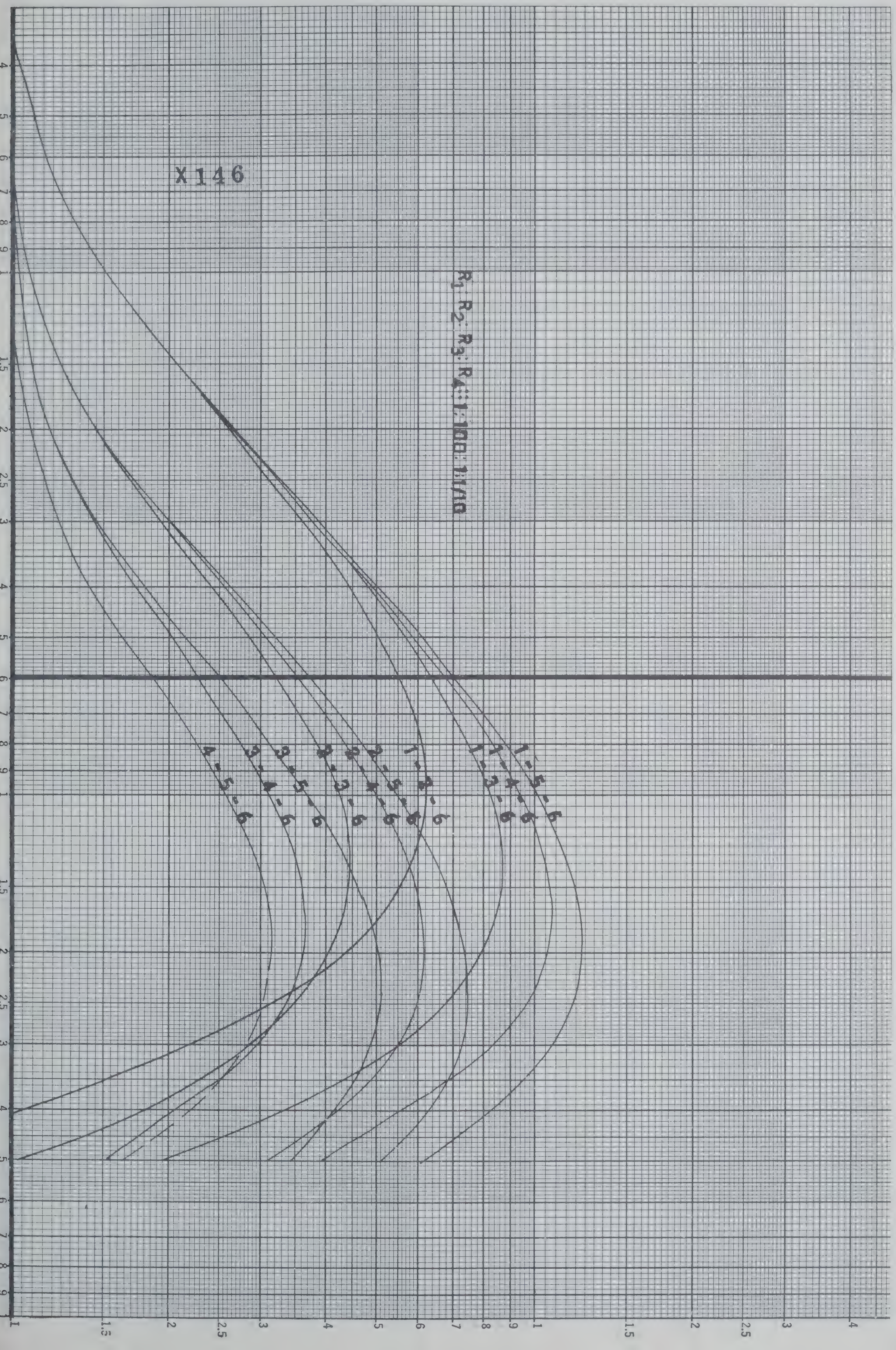
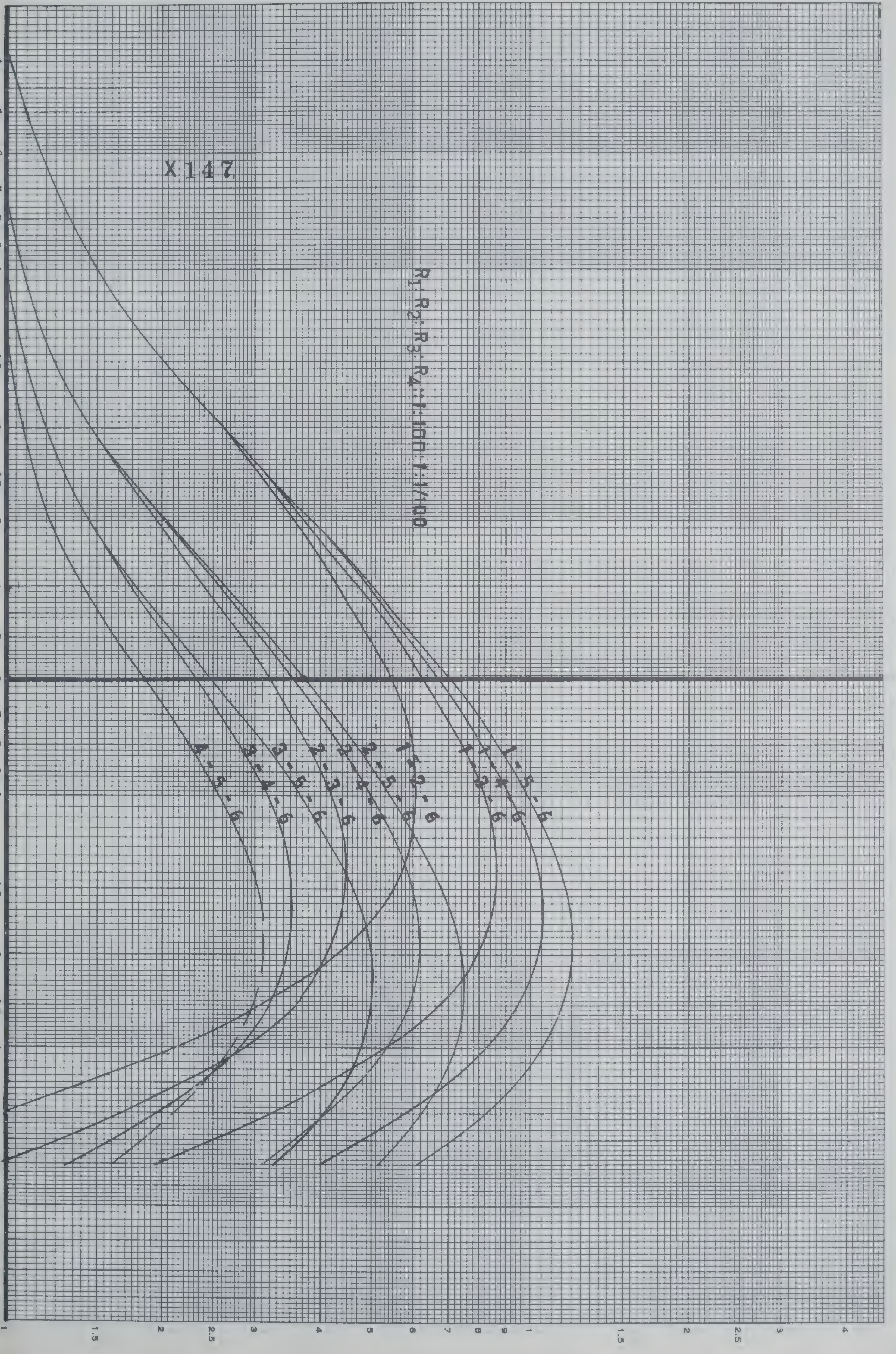
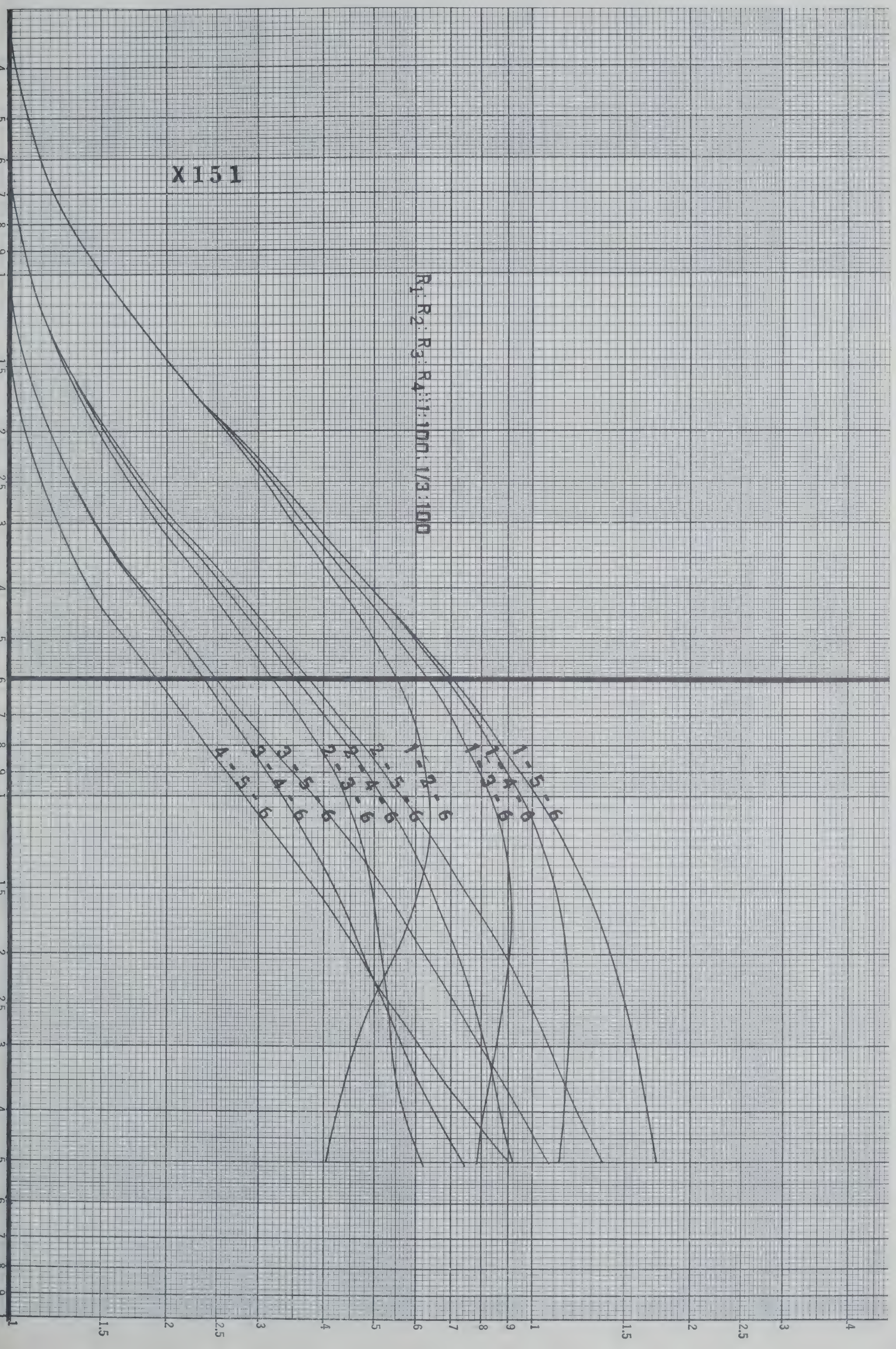
R1:R2:R3:R4::1:100:1:10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

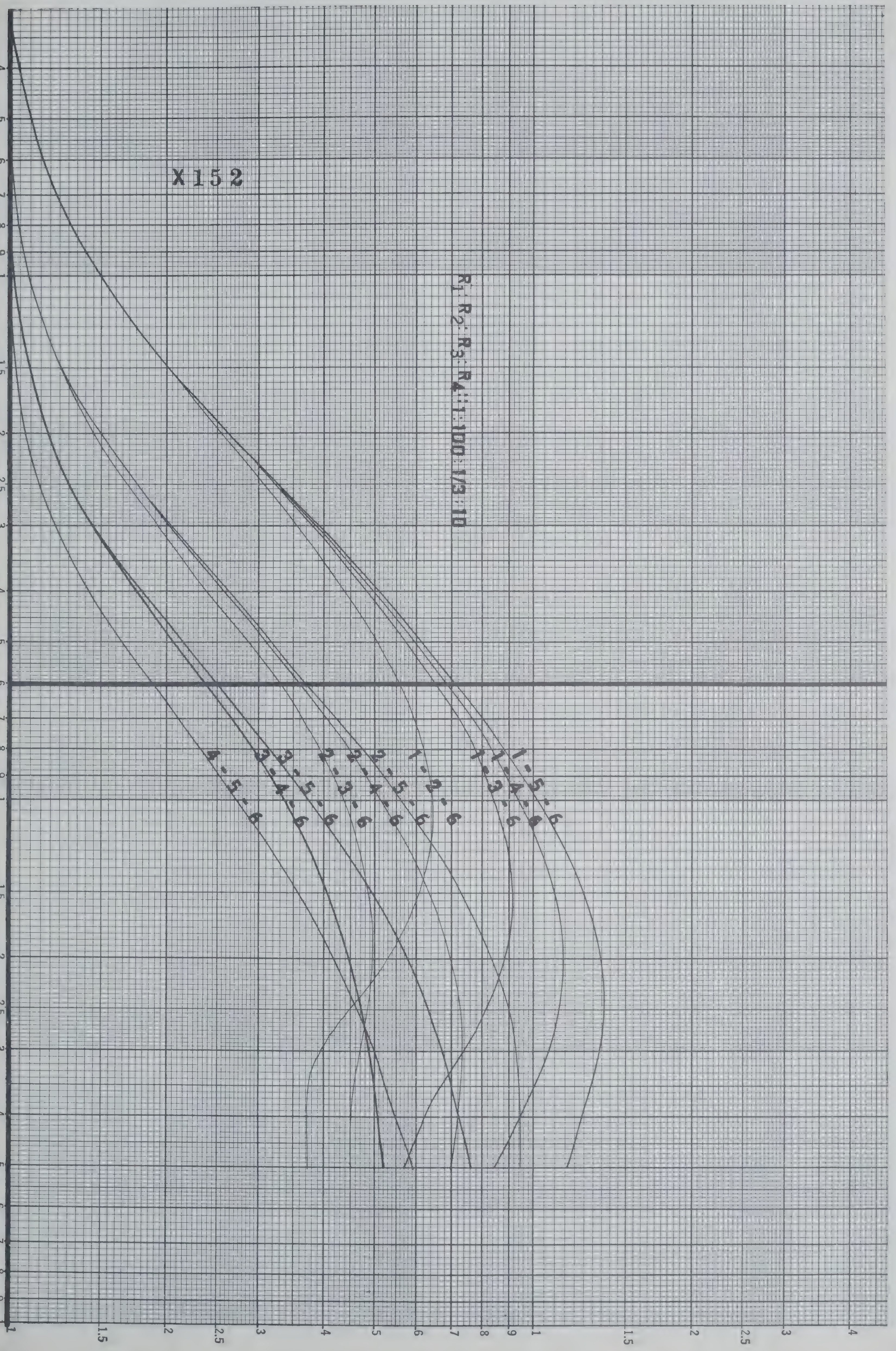

X 1 4 3
R1: R2: R3: R4 :: 1:100:1:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

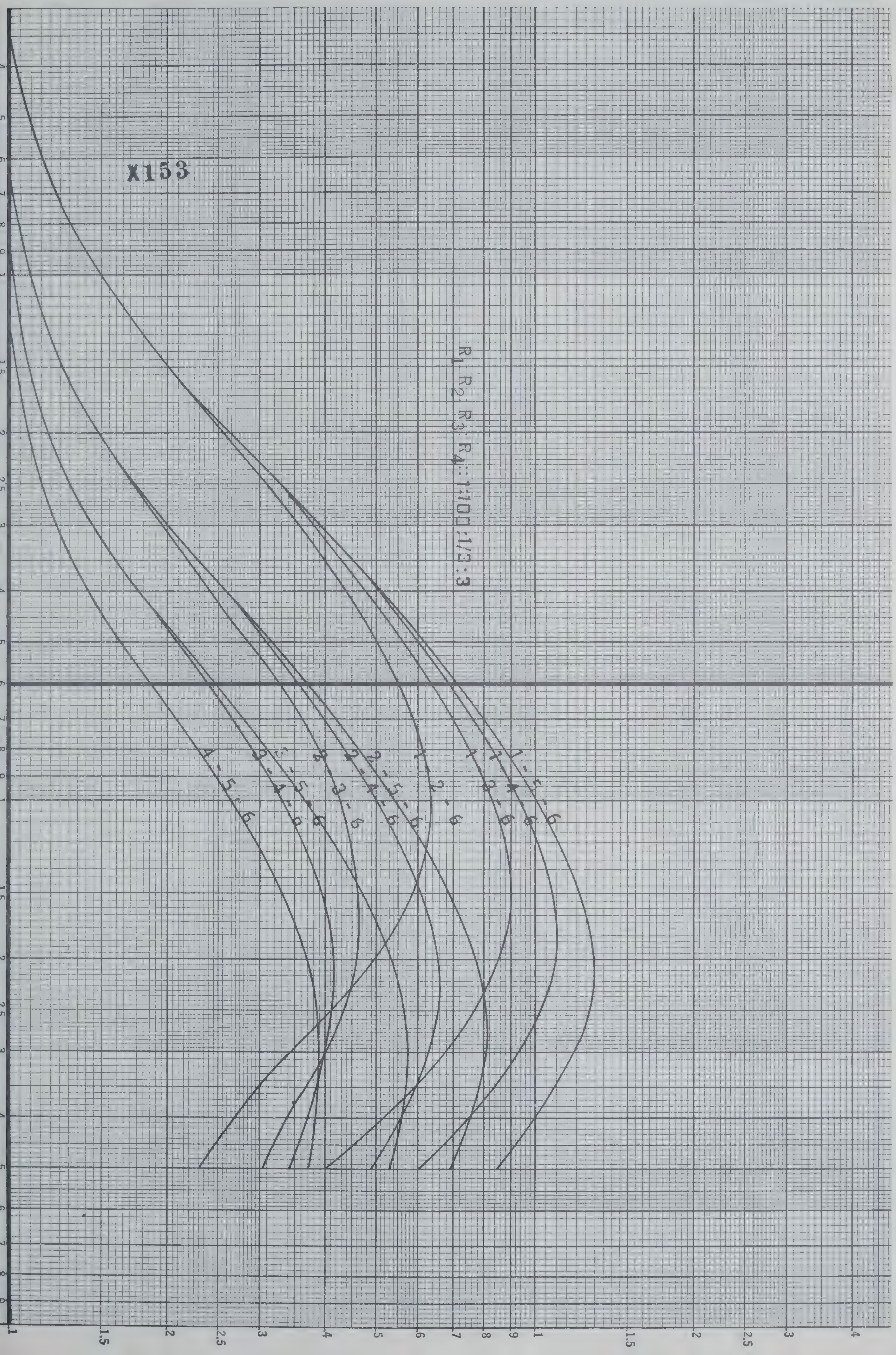

X145
R1:R2:R3:R4 :: 1:100:1:1/3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

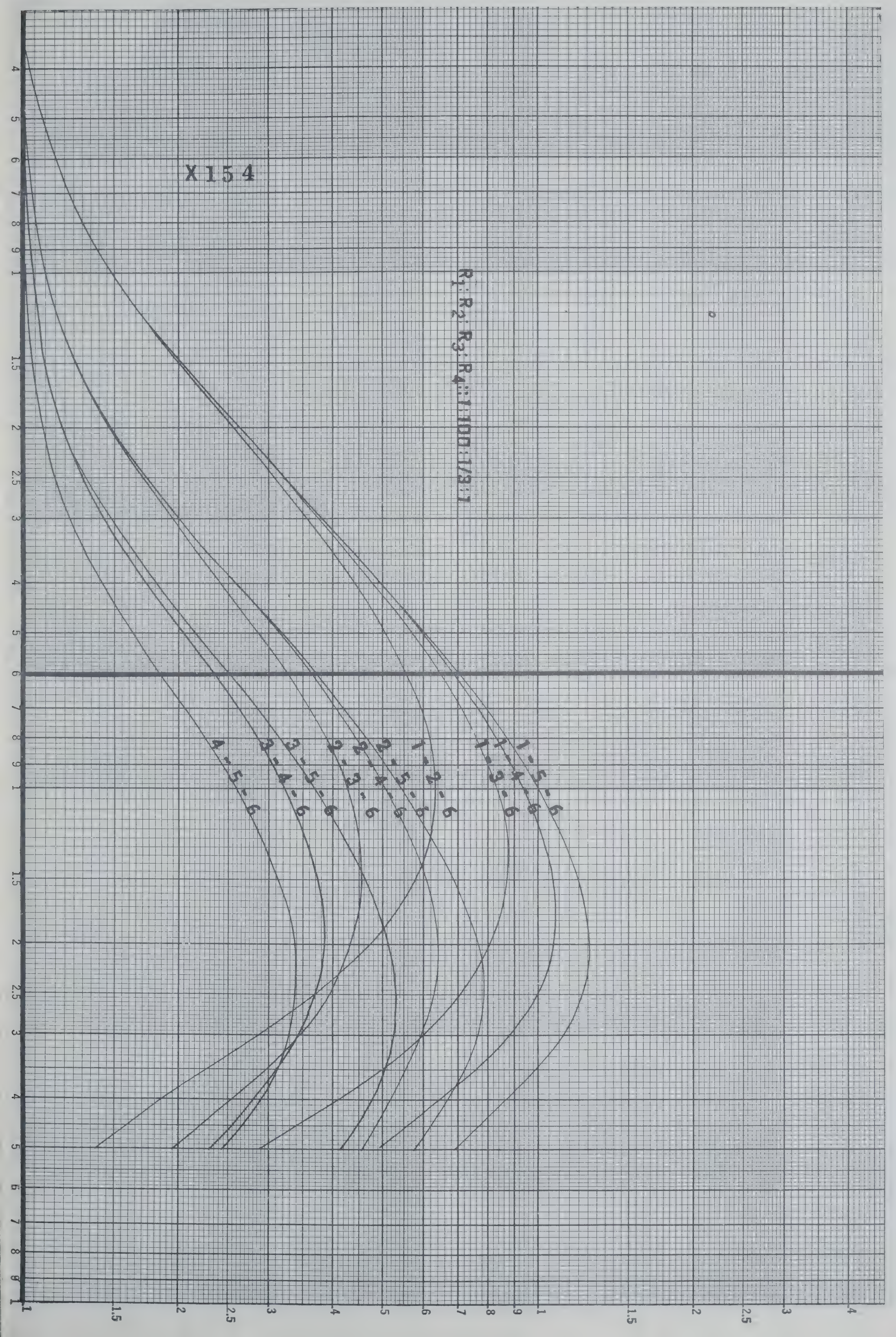

X 146
R1:R2:R3:R4::1:100:1/10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

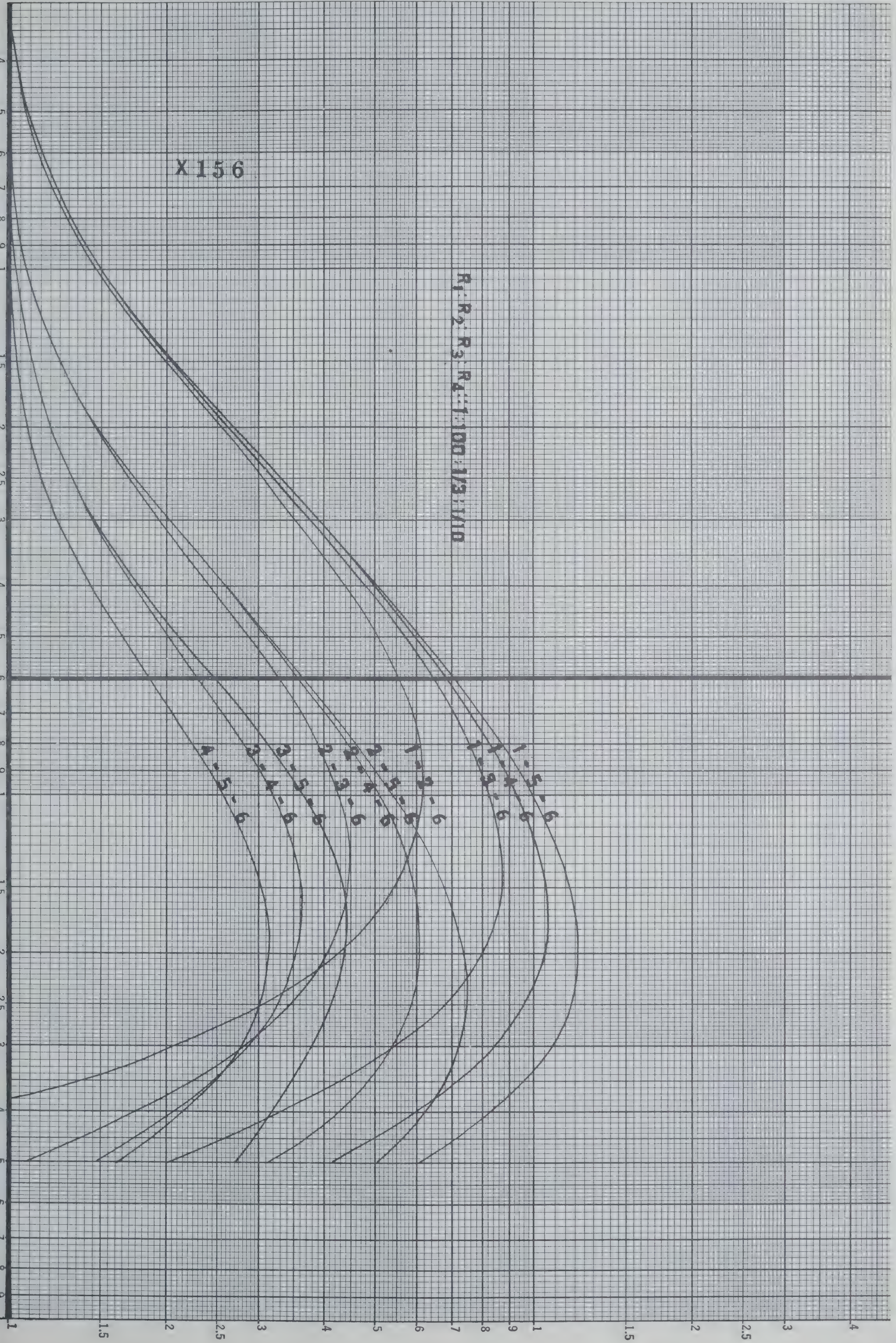

X147
R1:R2:R3:R4::1:100:1:1/100
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

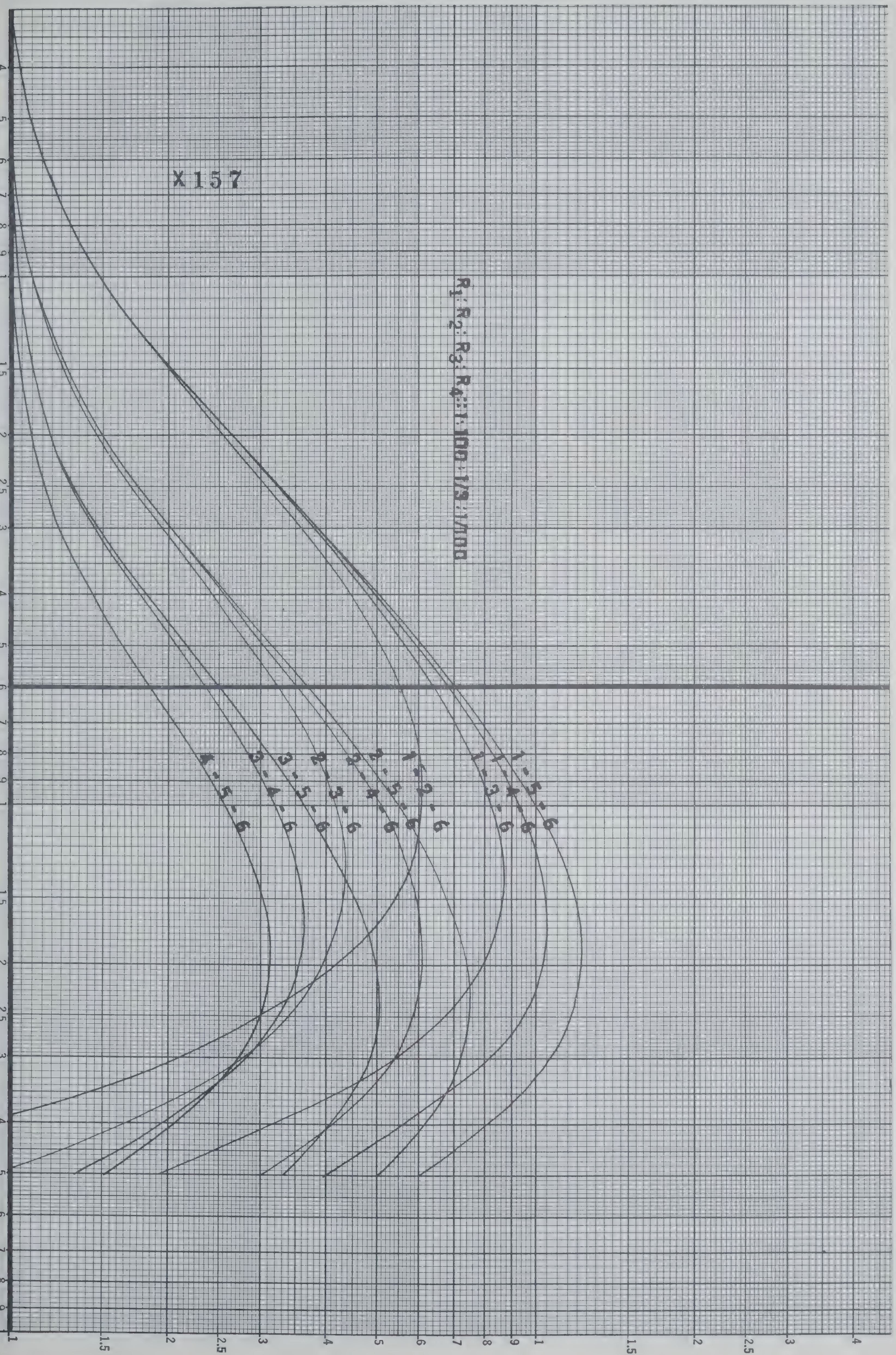

X151
R1: R2: R3: R4: 1:100:1/3:100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

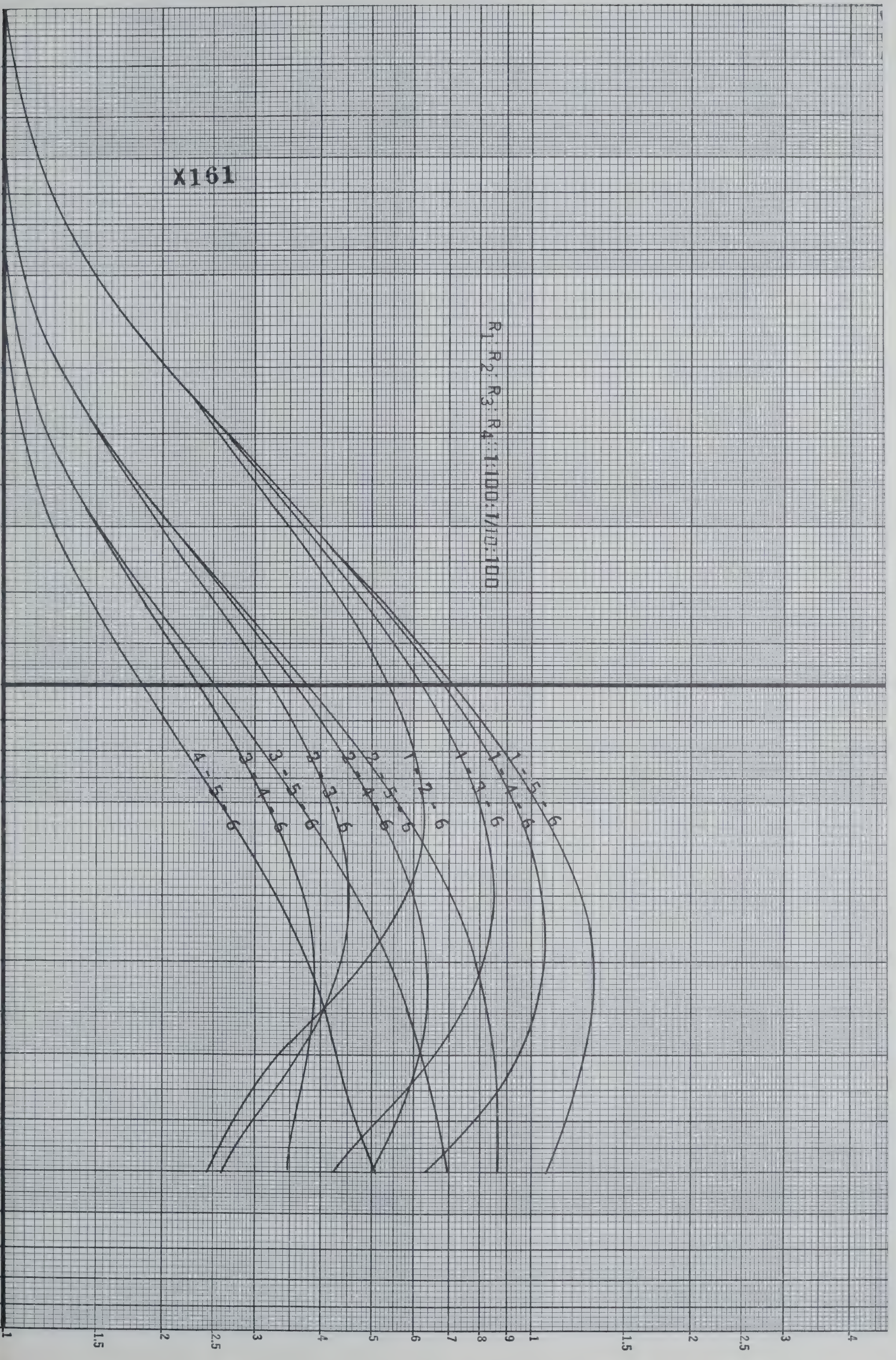

X 1 5 2
R1:R2:R3:R4::1:100:1/3:10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

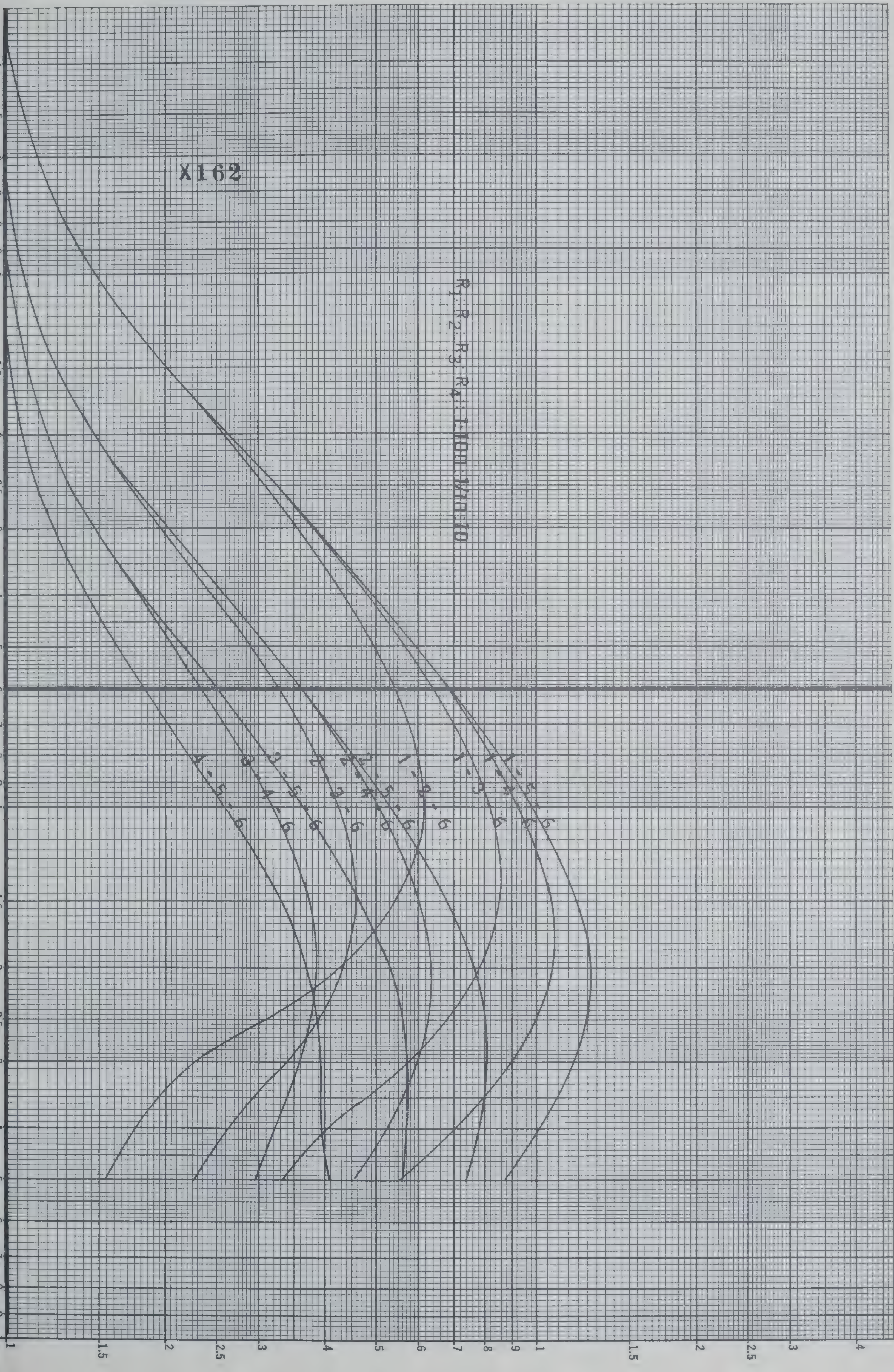

X153
R1 R2 R3 R4 : 1:100:1/3:3
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

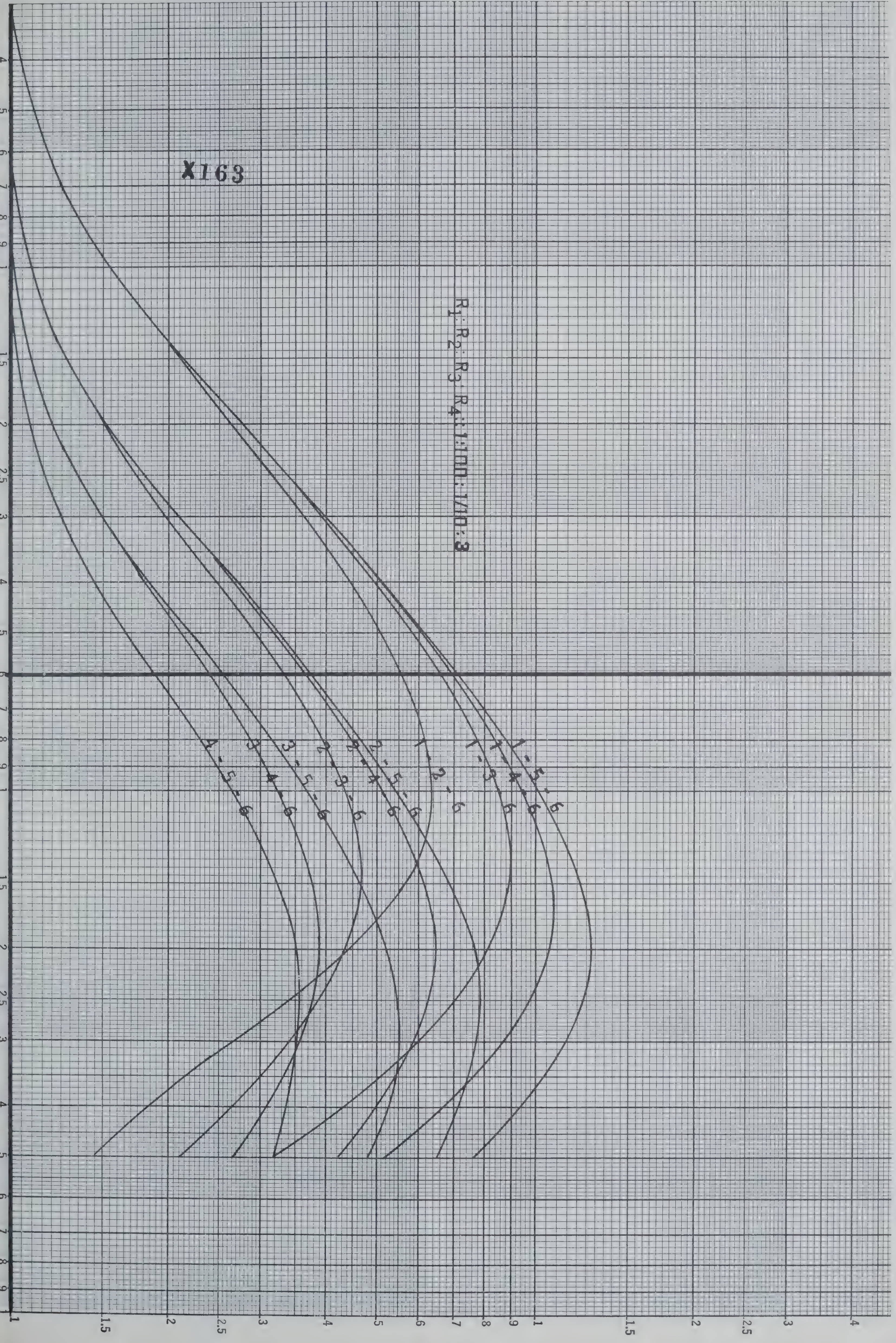

X154
R1:R2:R3:R4::1:100:1/3:1
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

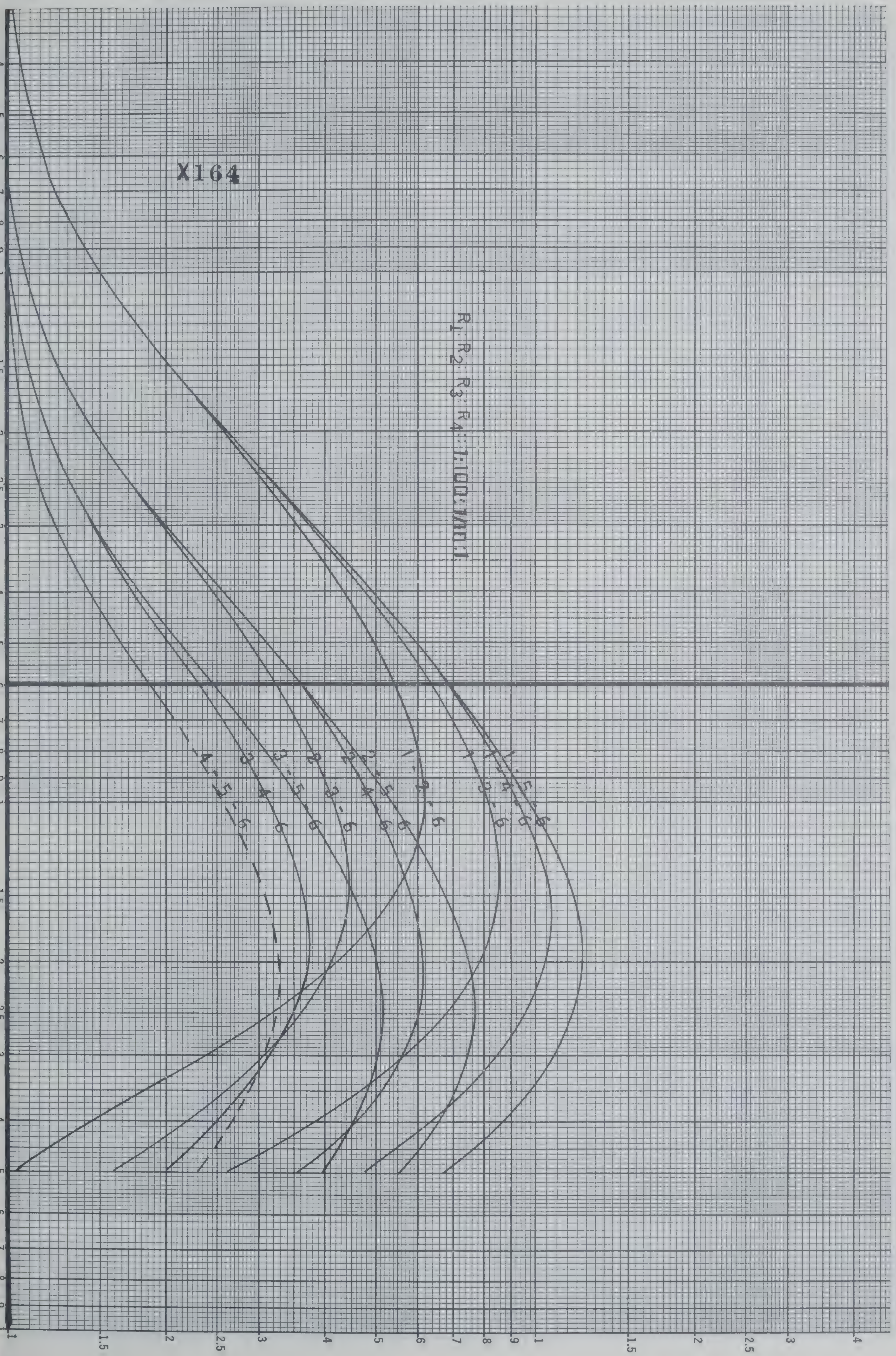

X156
R1:R2:R3:R4::1:100:1/3:1/10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

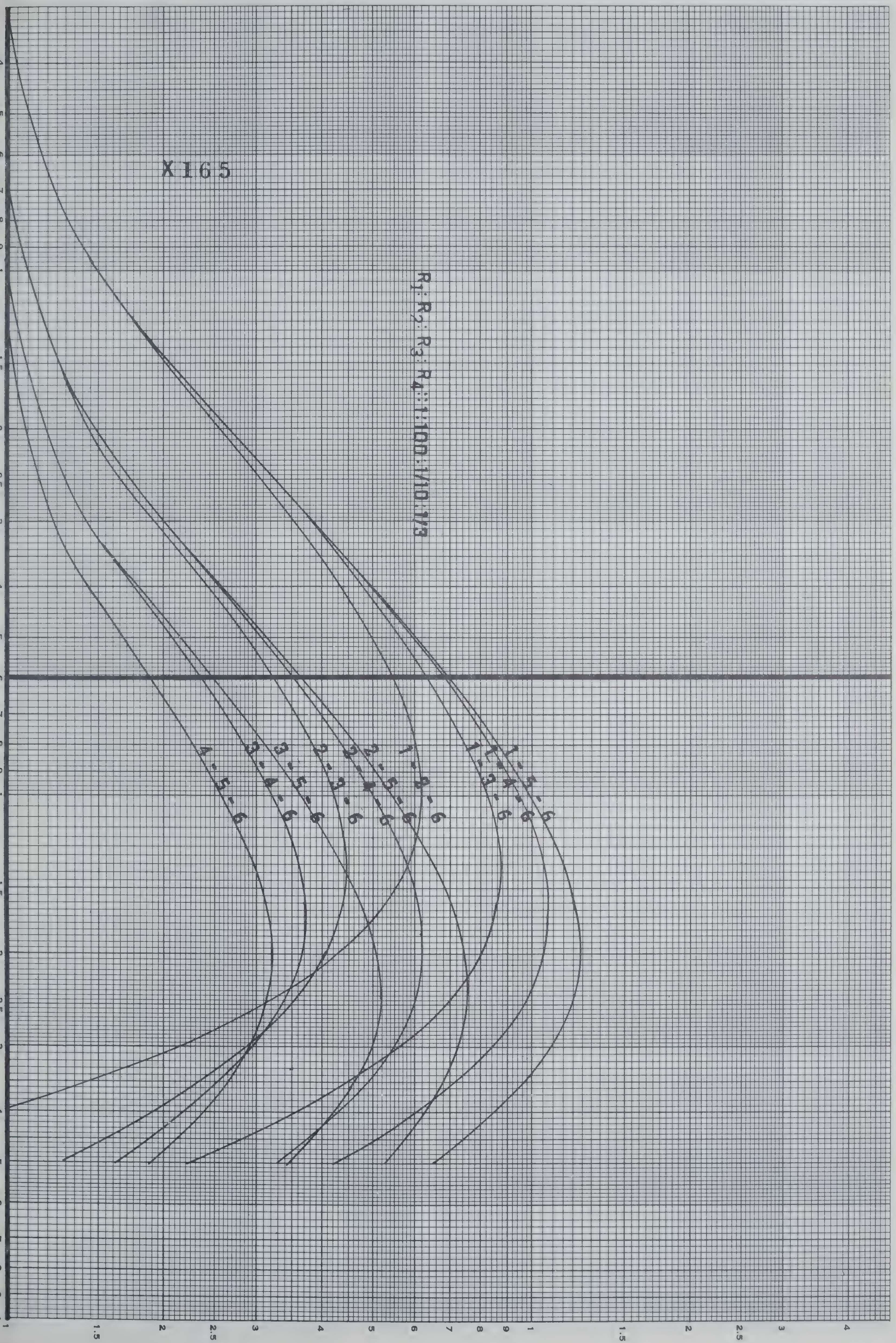

X 157
R1:R2:R3:R4::1:100:1/3:1/100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

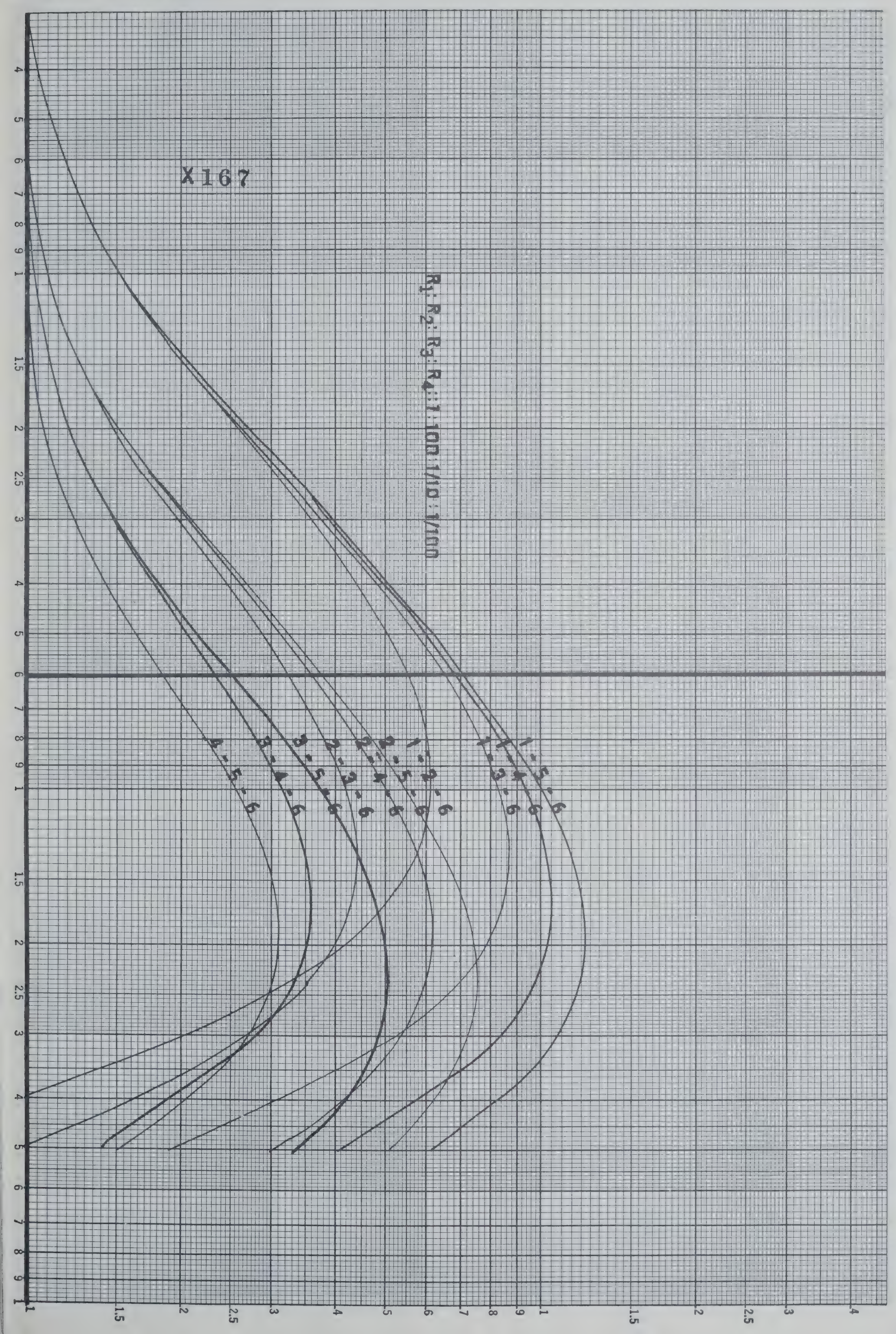

X161
R1:R2:R3:R4: 1:100:1/10:100
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

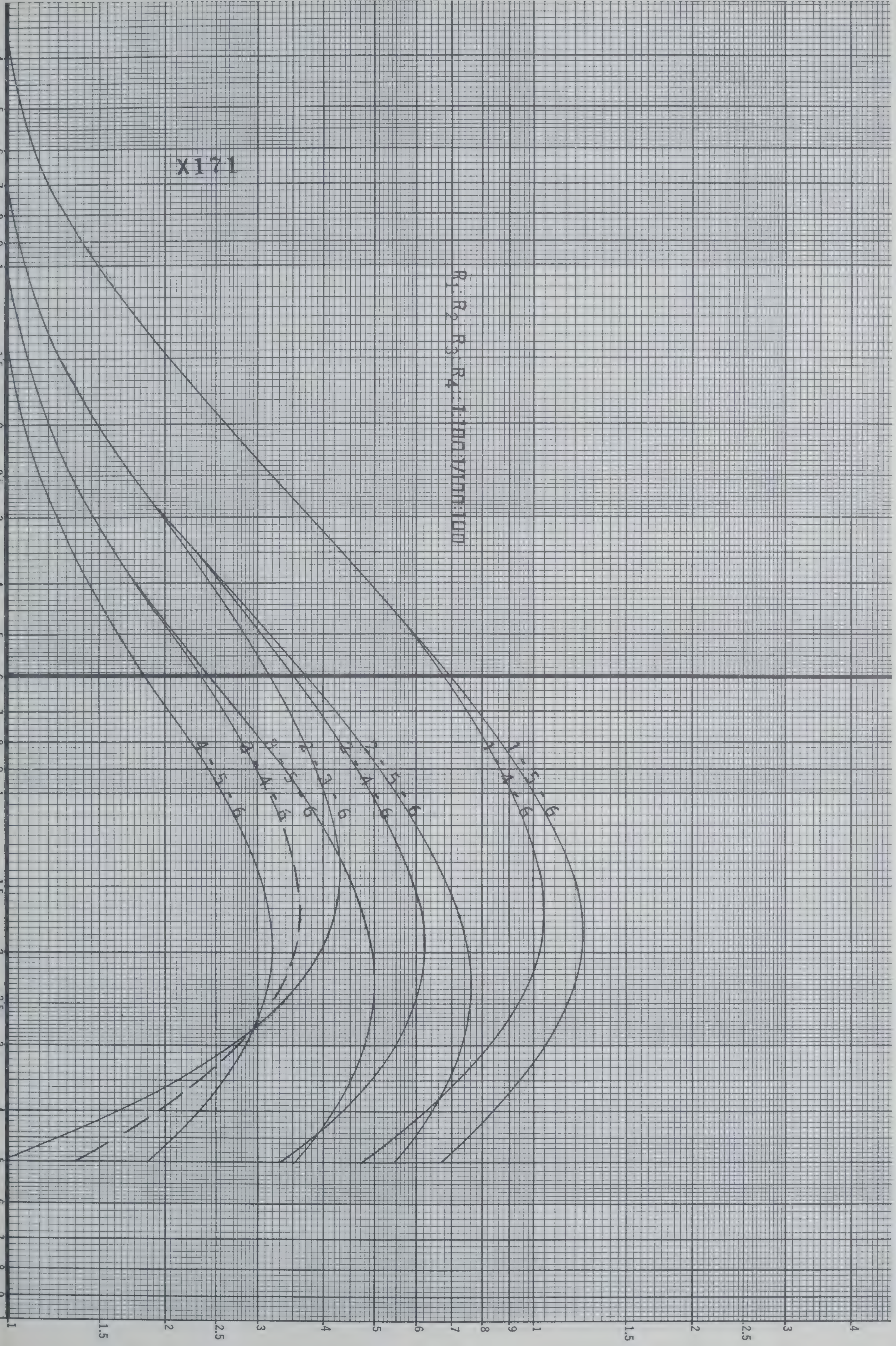

X162
R1:R2:R3:R4::1:100:1/10:10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

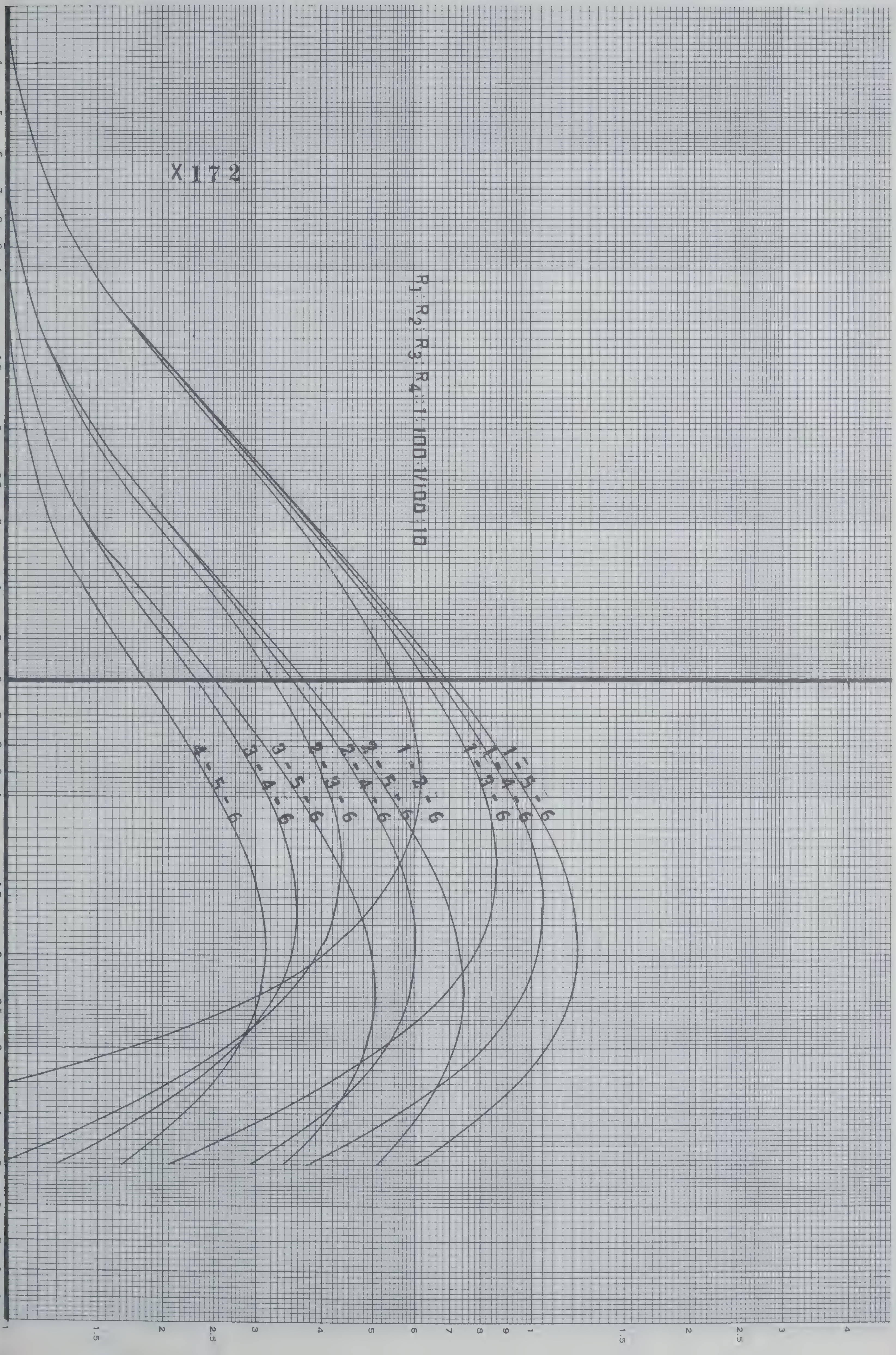

X163
R1:R2:R3:R4::1:100:1/10:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

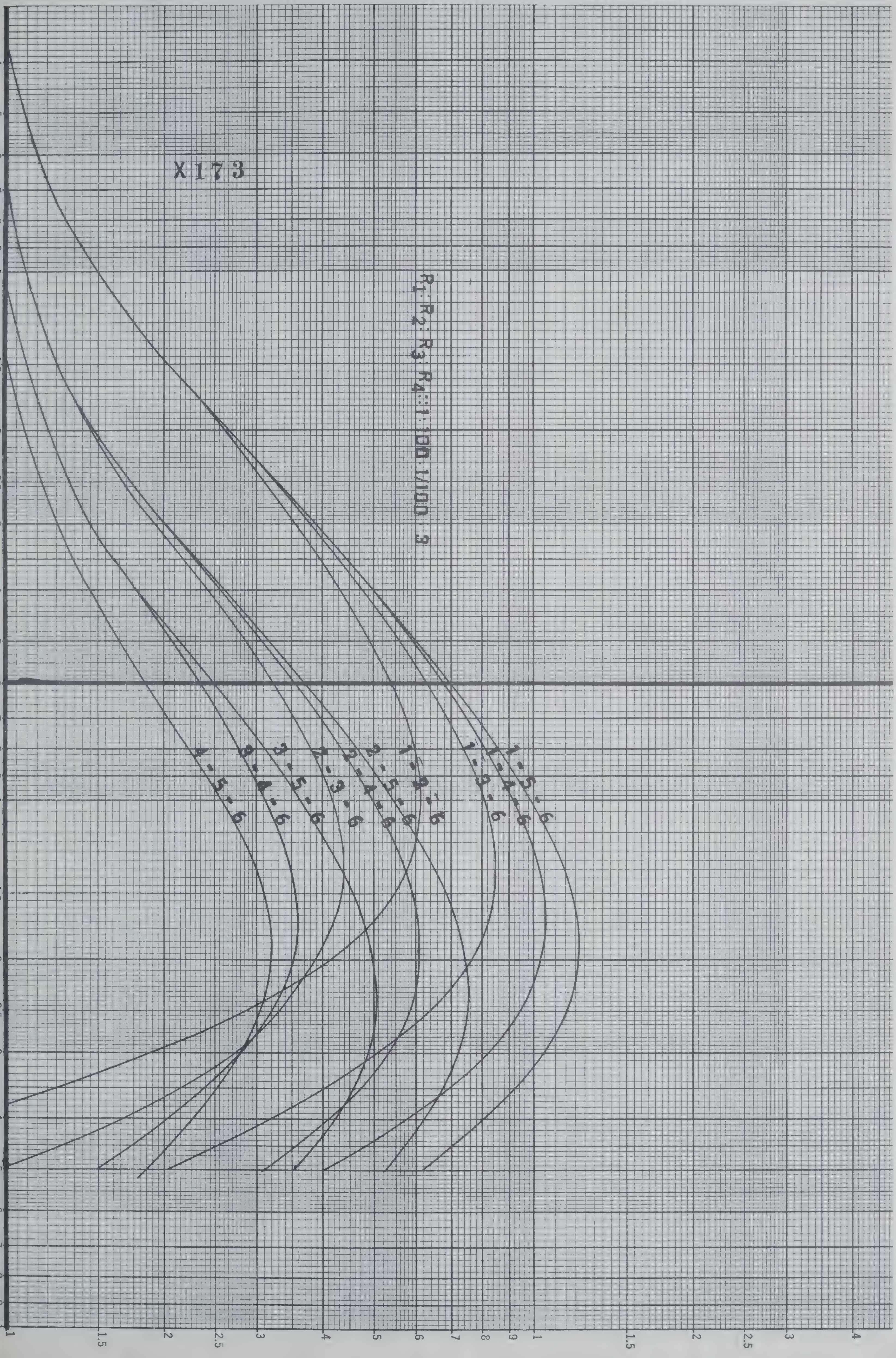

X164
R1:R2:R3:R4::1:100:1/100:1
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

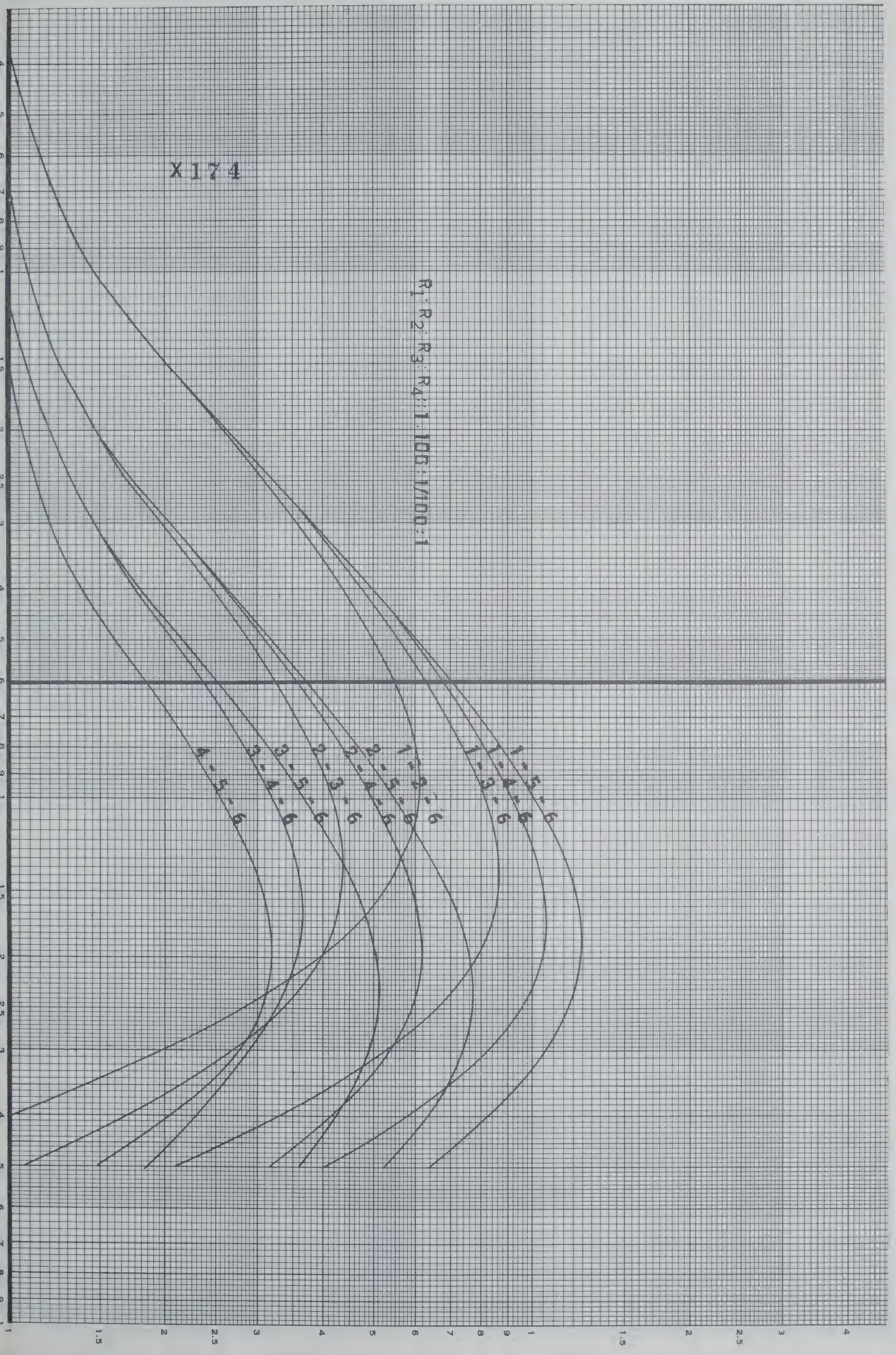

X165
R1:R2:R3:R4::1:100:1/10:1/3
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-3-6
1-4-6
1-5-6

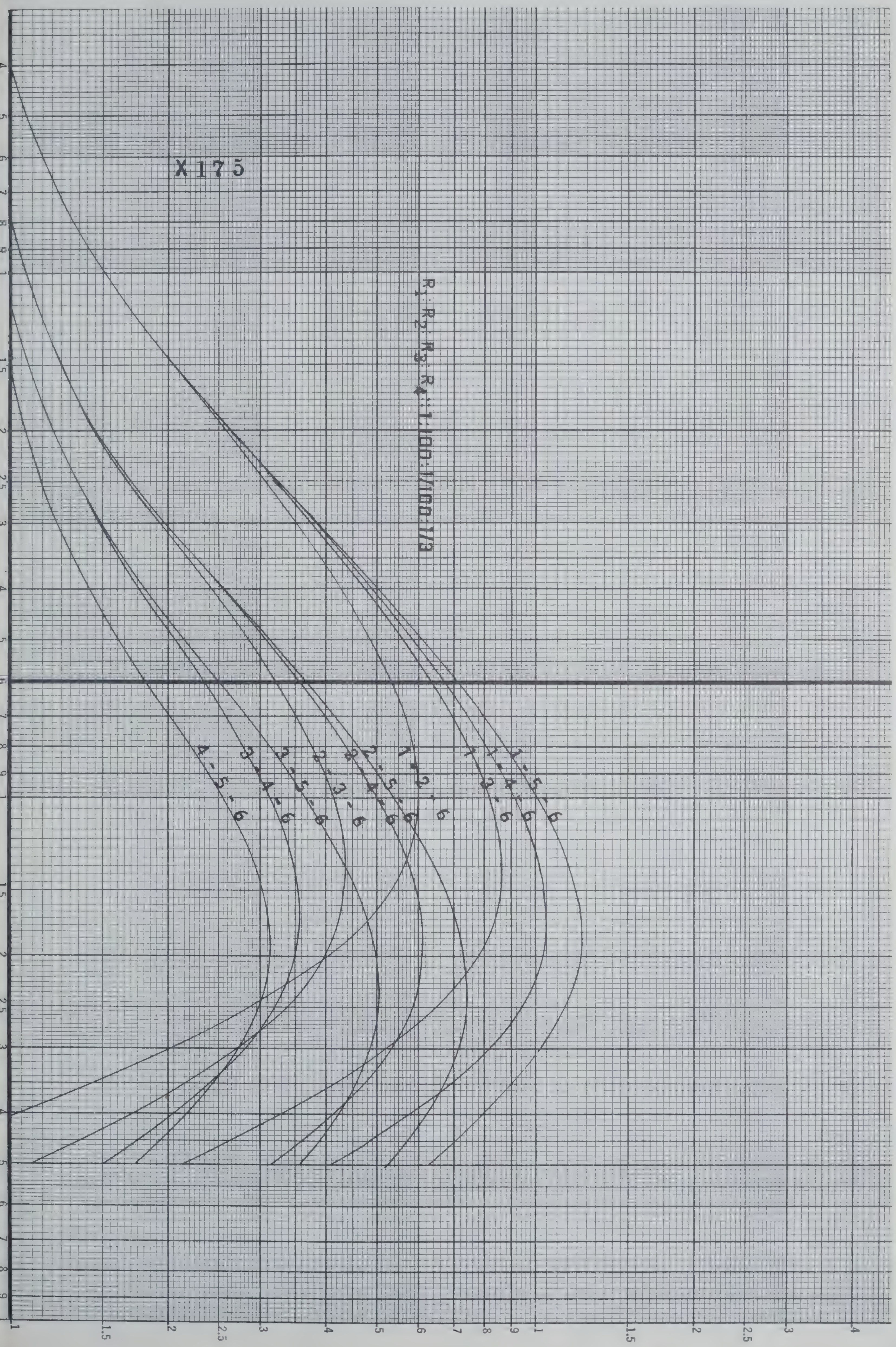

X167
R1:R2:R3:R4::1:100:1/10:1/100
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

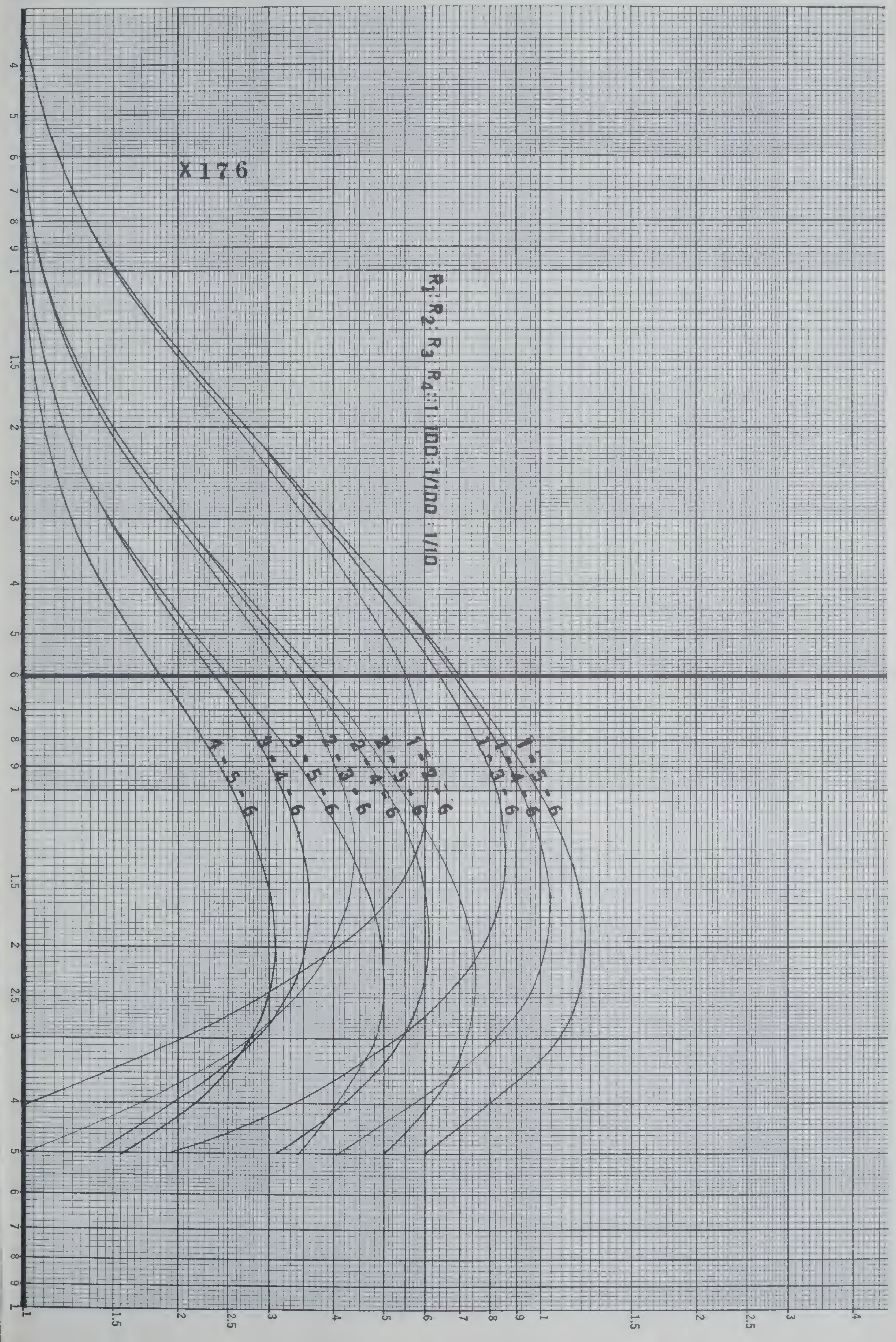

X171
$R_1:R_2:R_3:R_4::1:100:1/100:100$
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-4-6
1-5-6

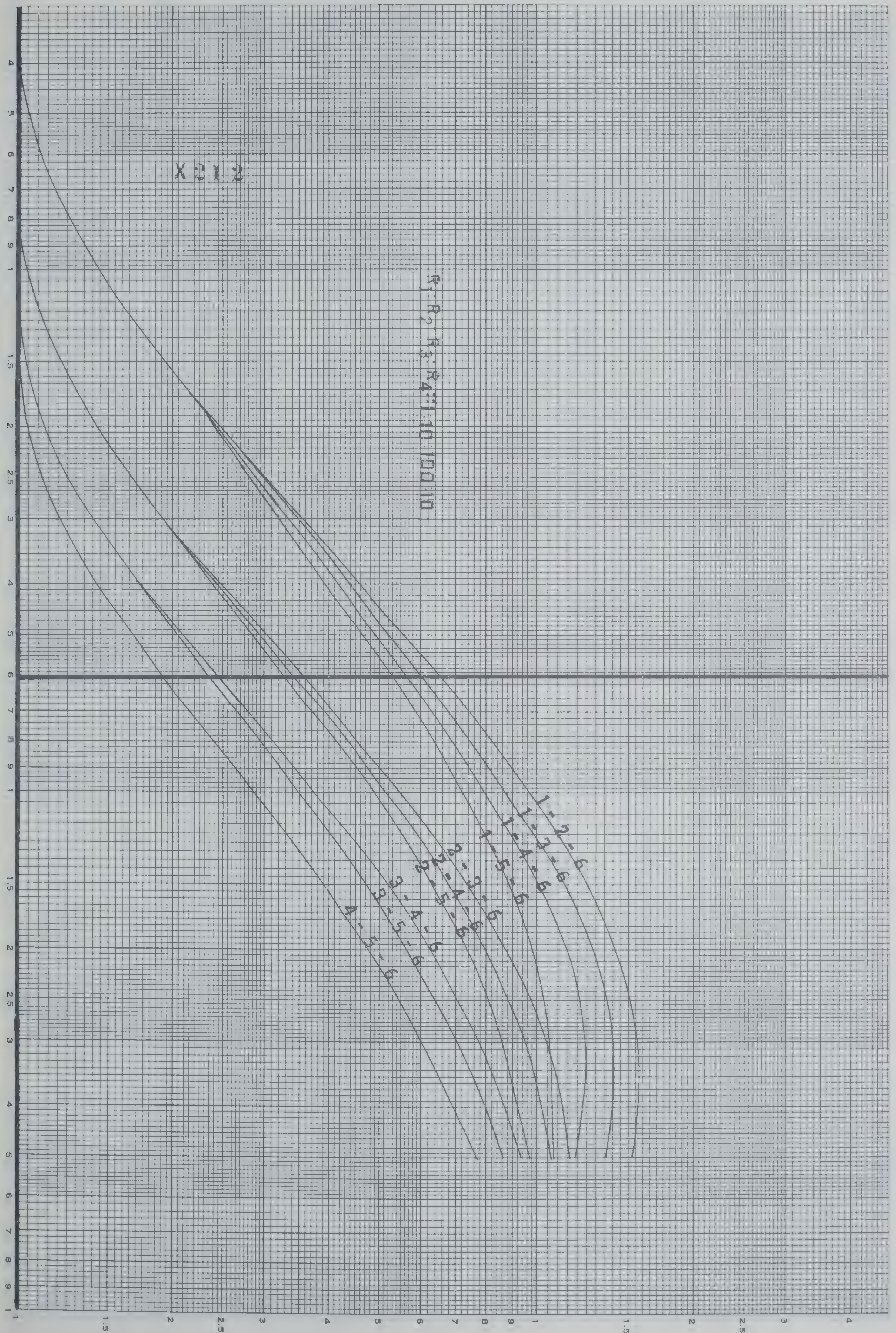

X 172
R1:R2:R3:R4::1:100:1/100:10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

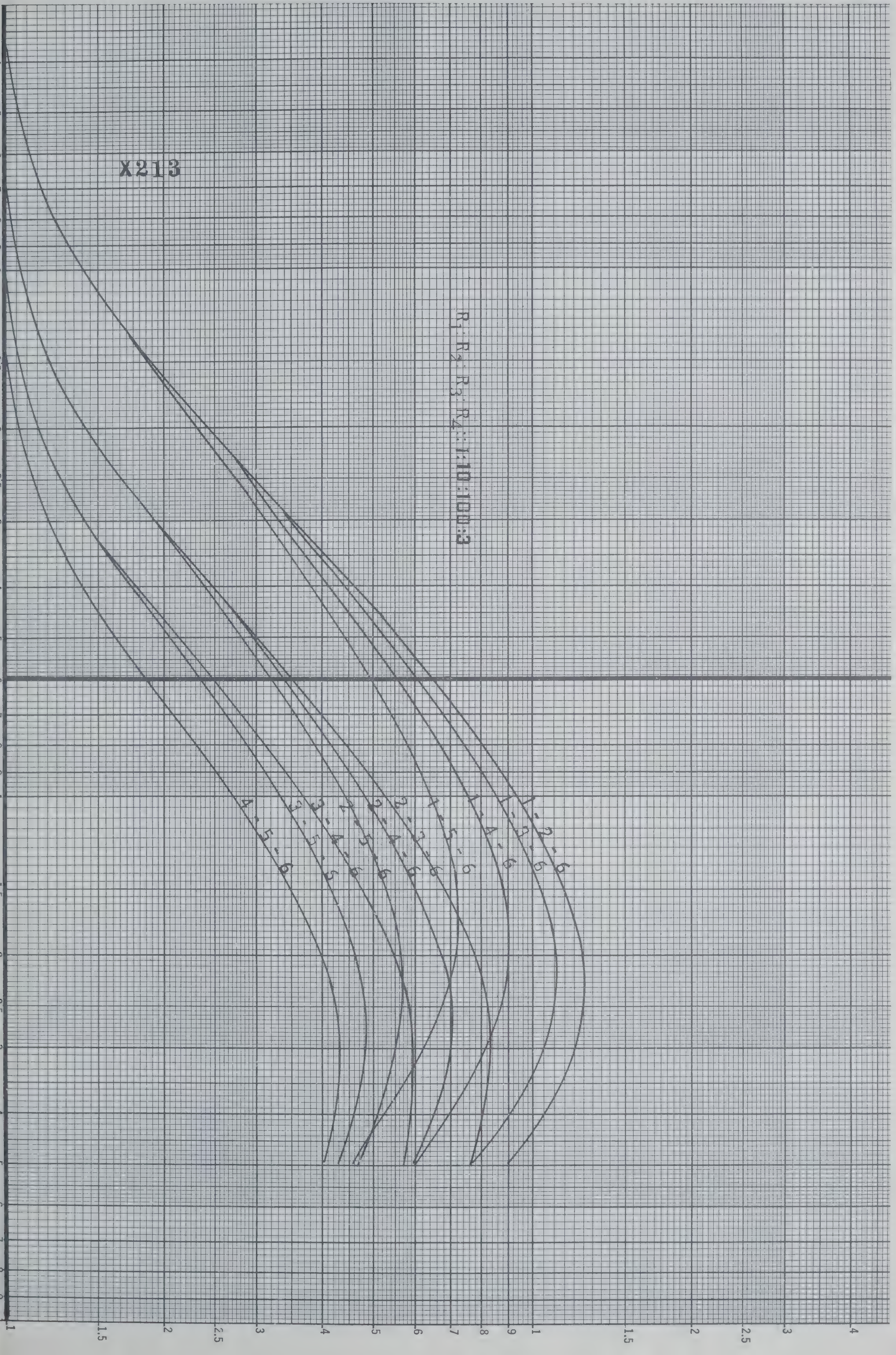

X173
R1:R2:R3:R4::1:100:1/100:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

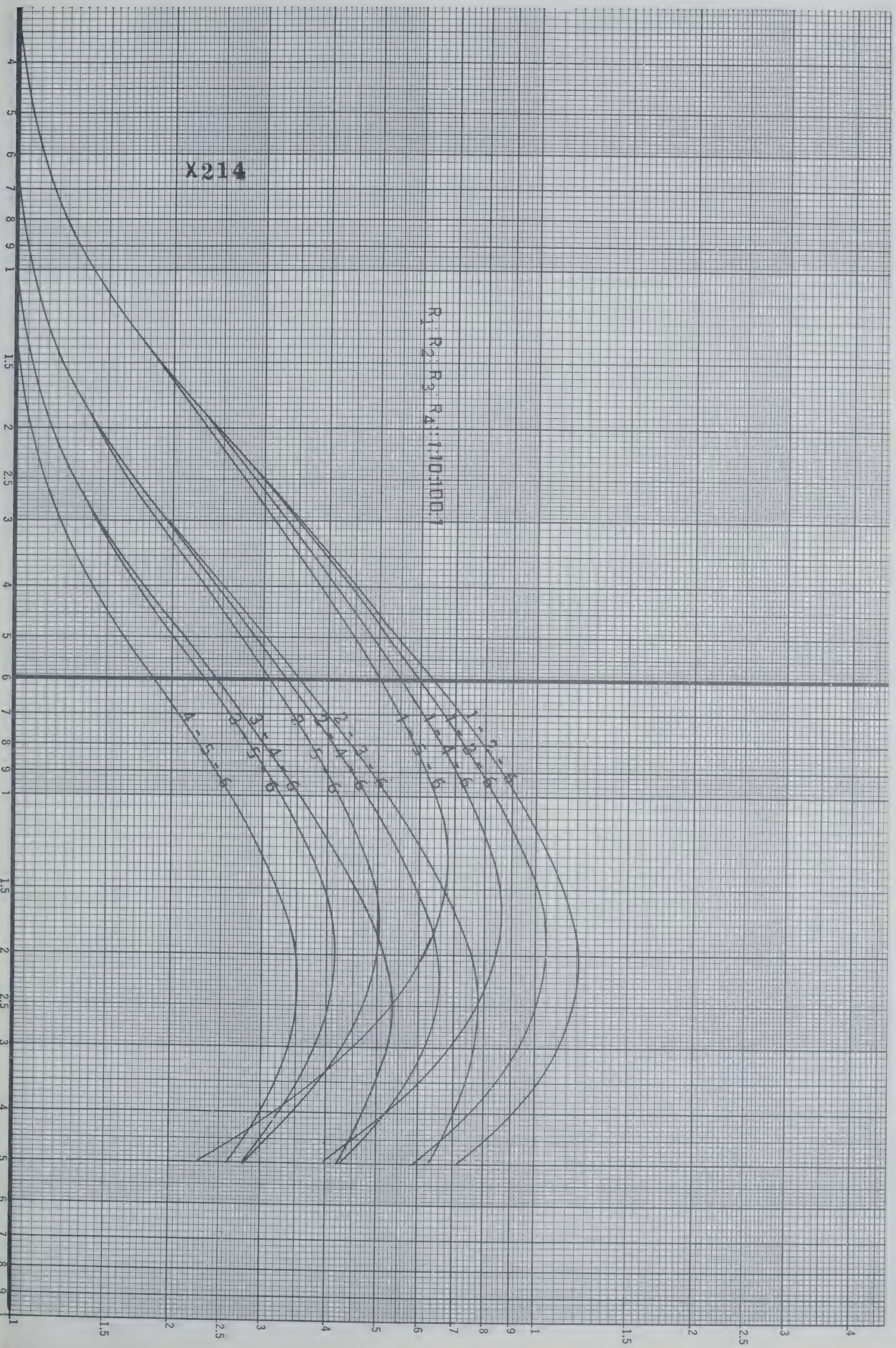

X174
R1:R2:R3:R4::1:100:1/100:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

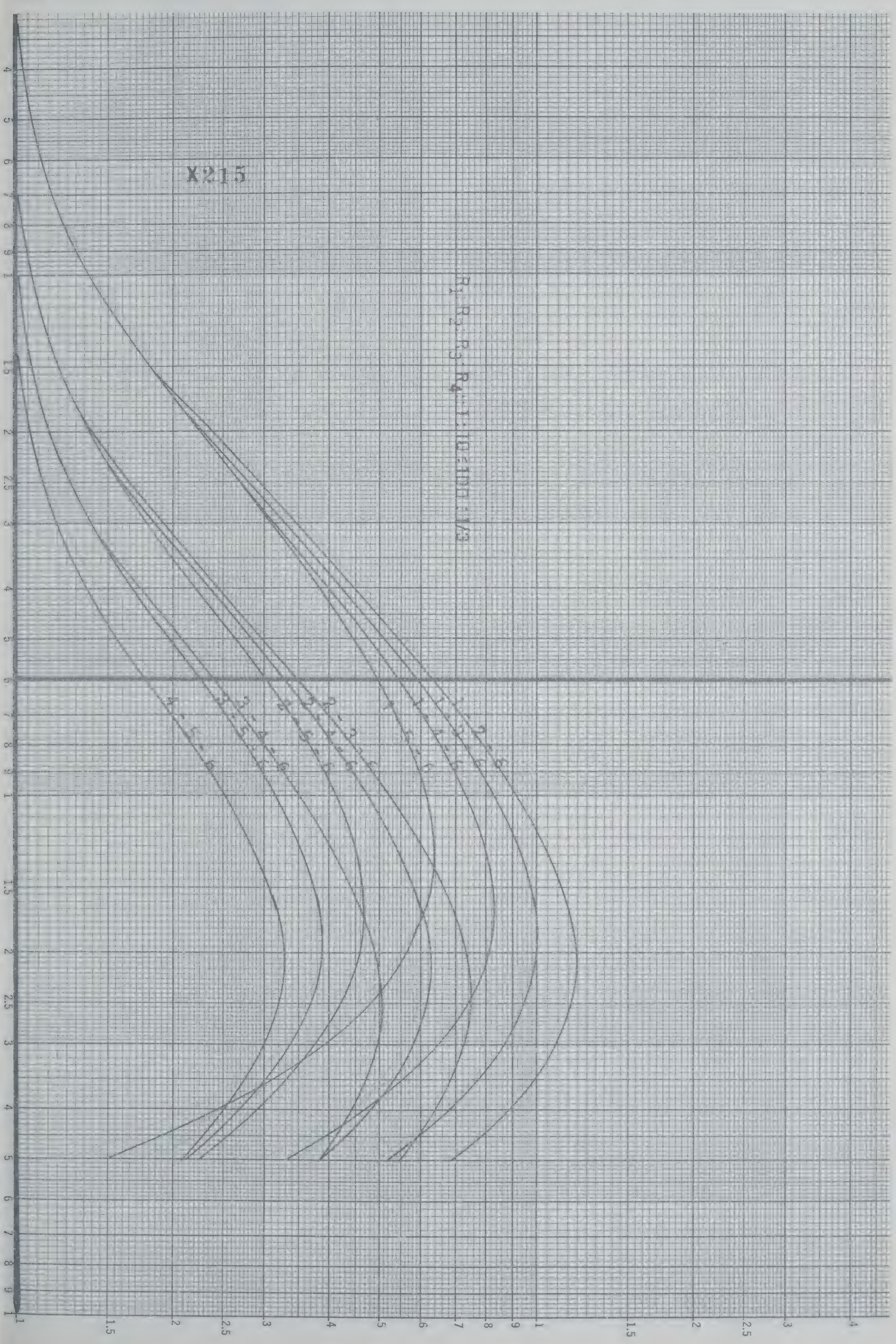

X 1 7 5
R1: R2: R3: R4::1:100:1/100:1/3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

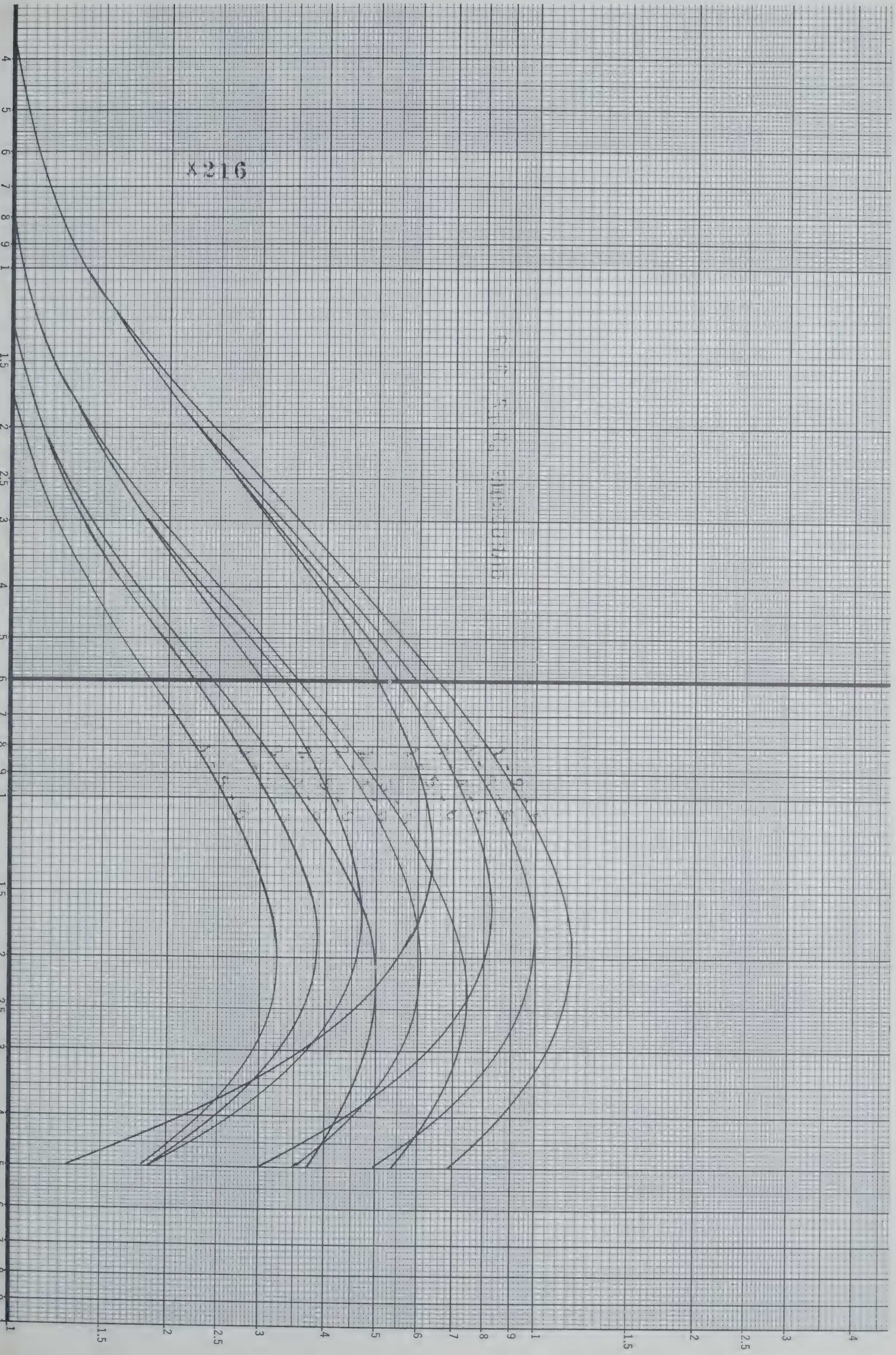

X176
R1:R2:R3:R4::1:100:1/100:1/10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

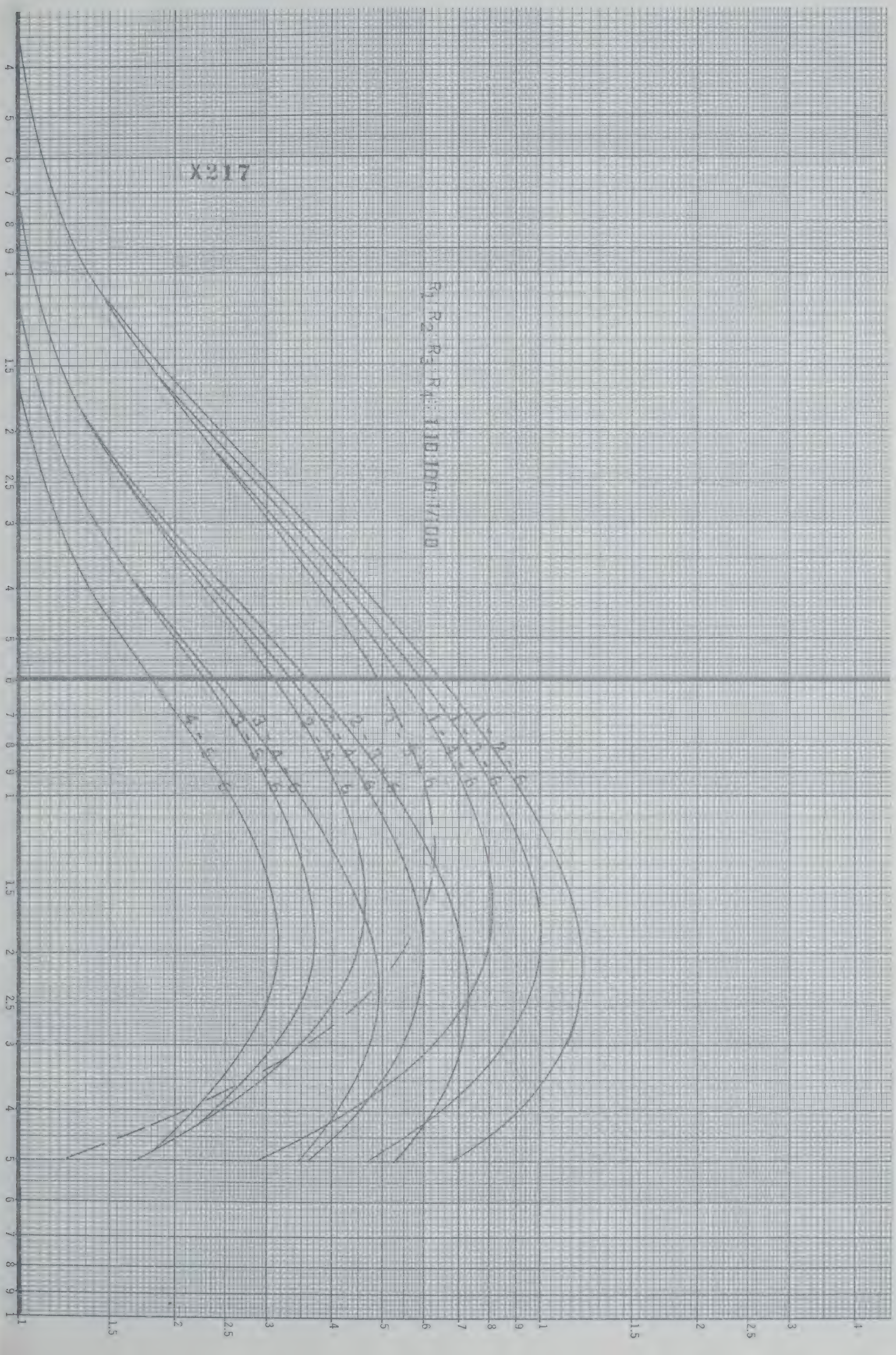

X 21 2
R1:R2:R3:R4::1:10:100:10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

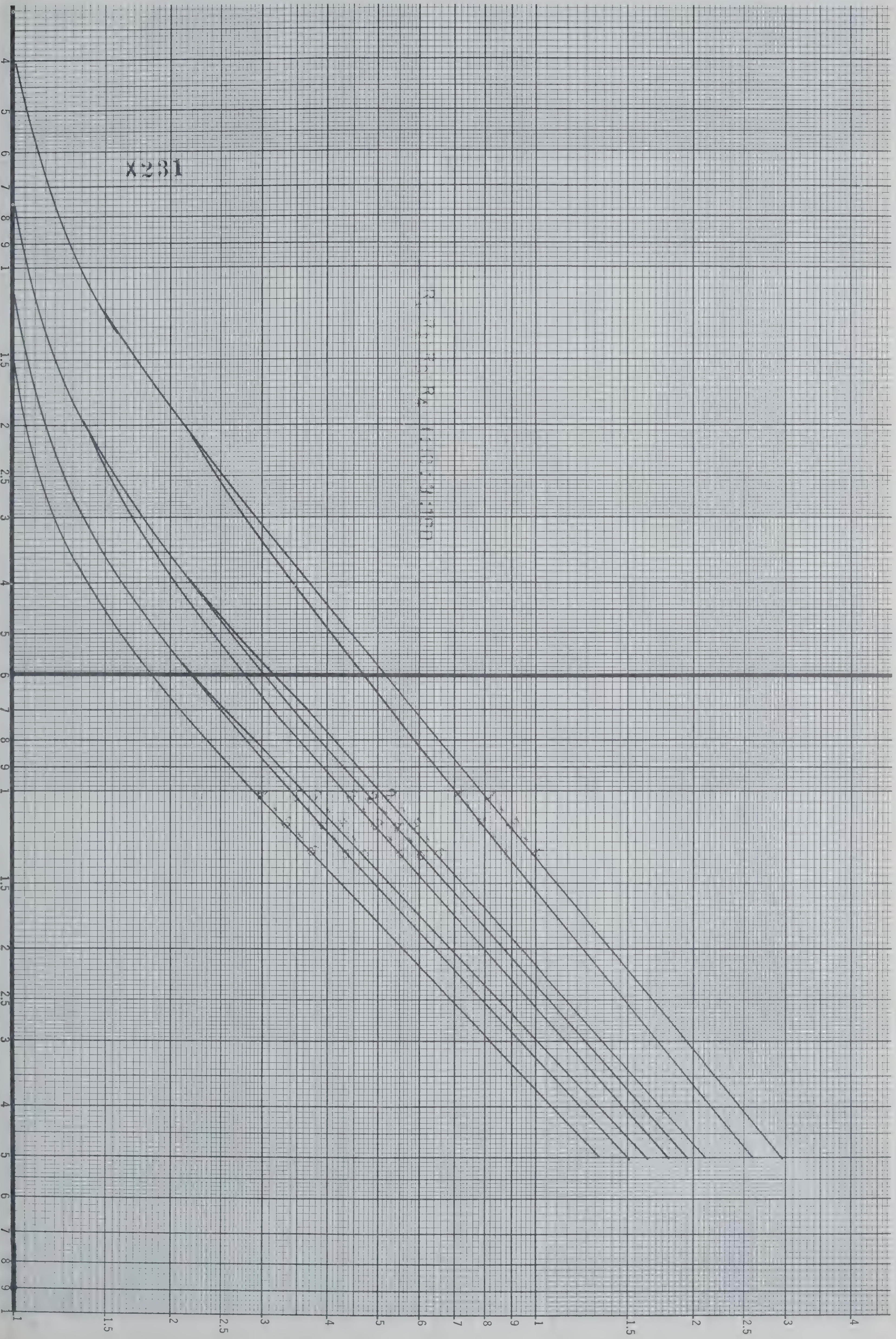

X213
R1:R2:R3:R4::1:10:100:3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

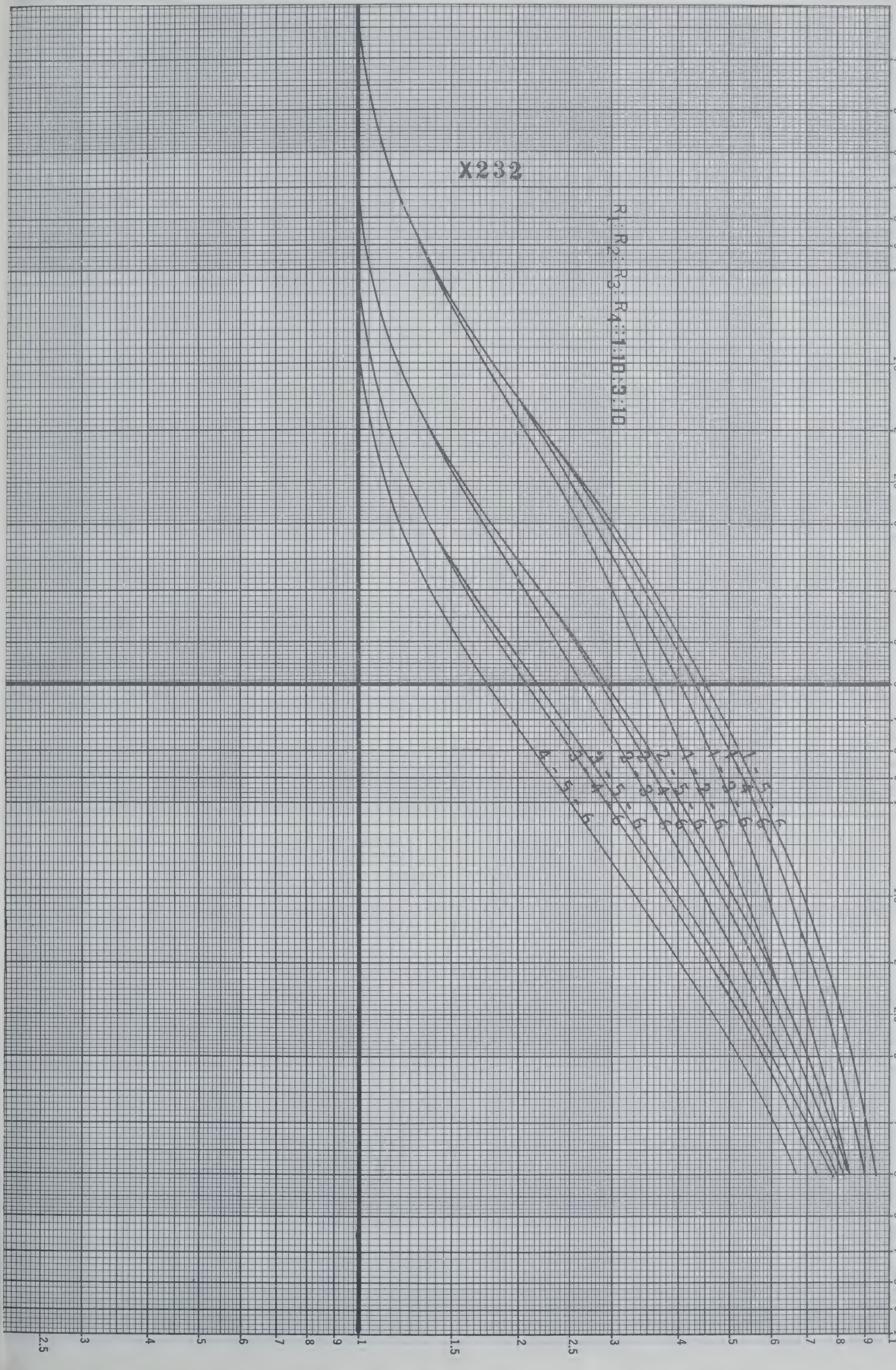

X214
R1:R2:R3:R4::1:10:100:1
4-5-6
3-5-6
3-4-6
2-5-6
2-4-6
2-3-6
1-5-6
1-4-6
1-3-6
1-2-6

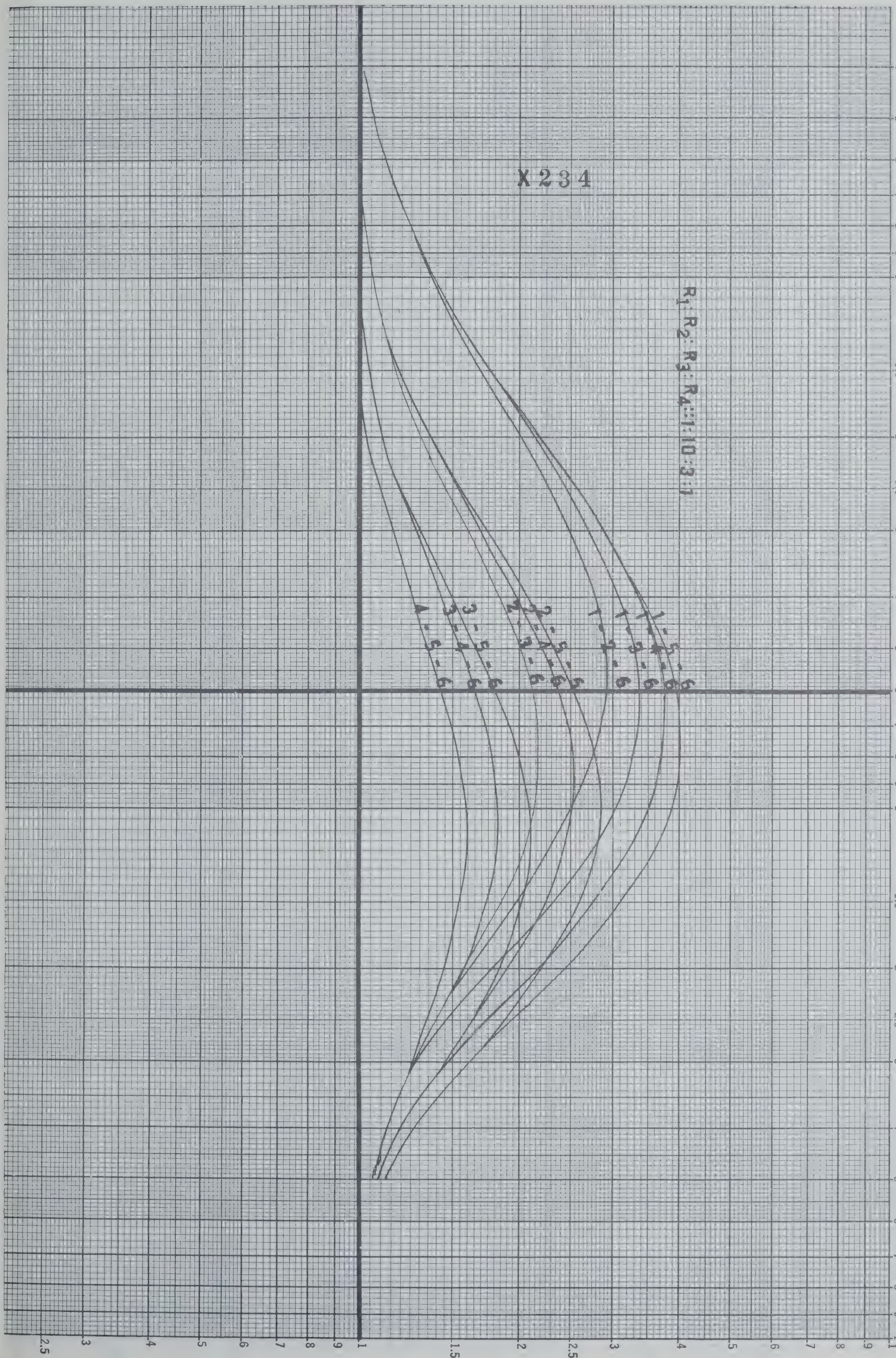

X215
R1:R2:R3:R4 = 1:10:100:1/3

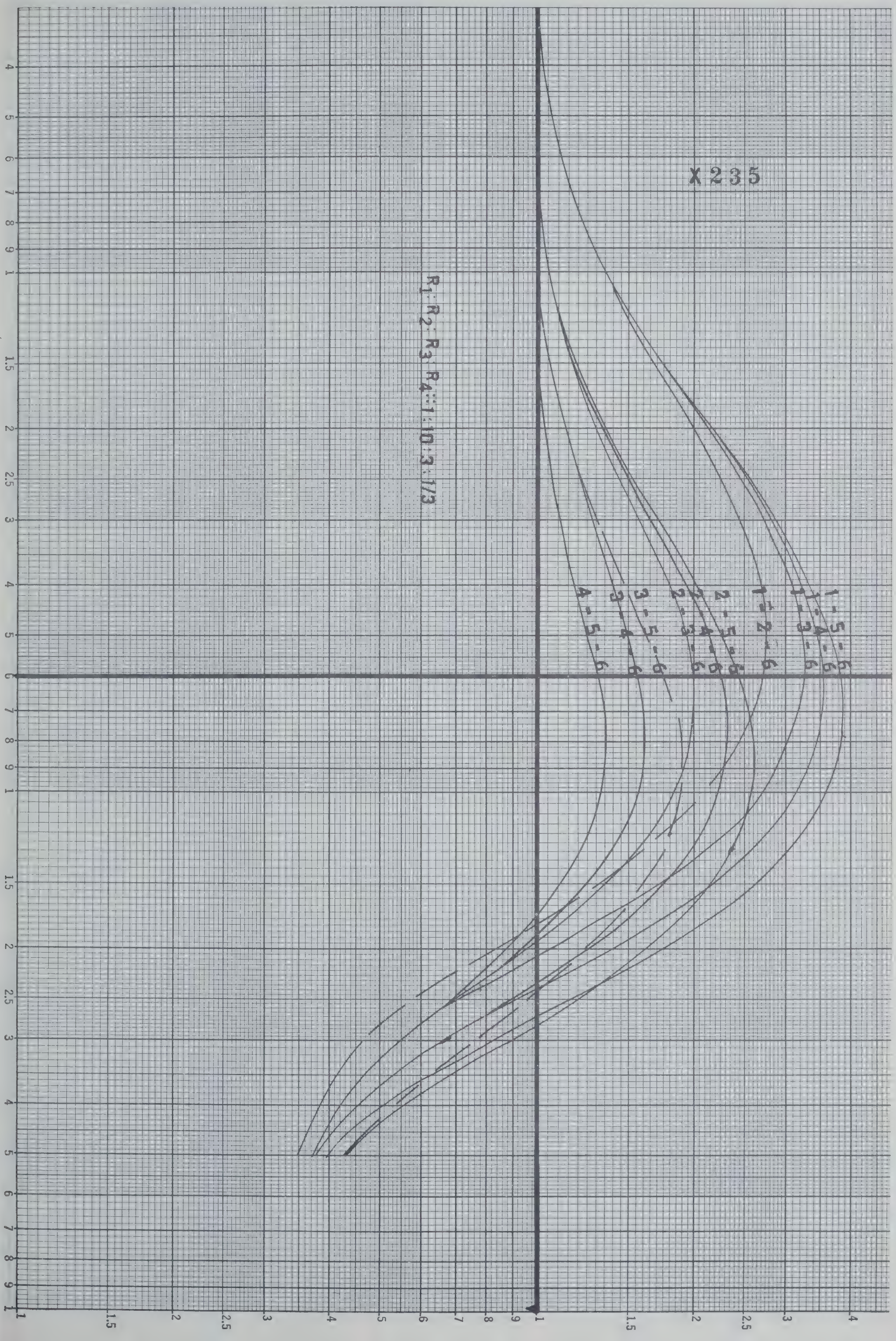

216

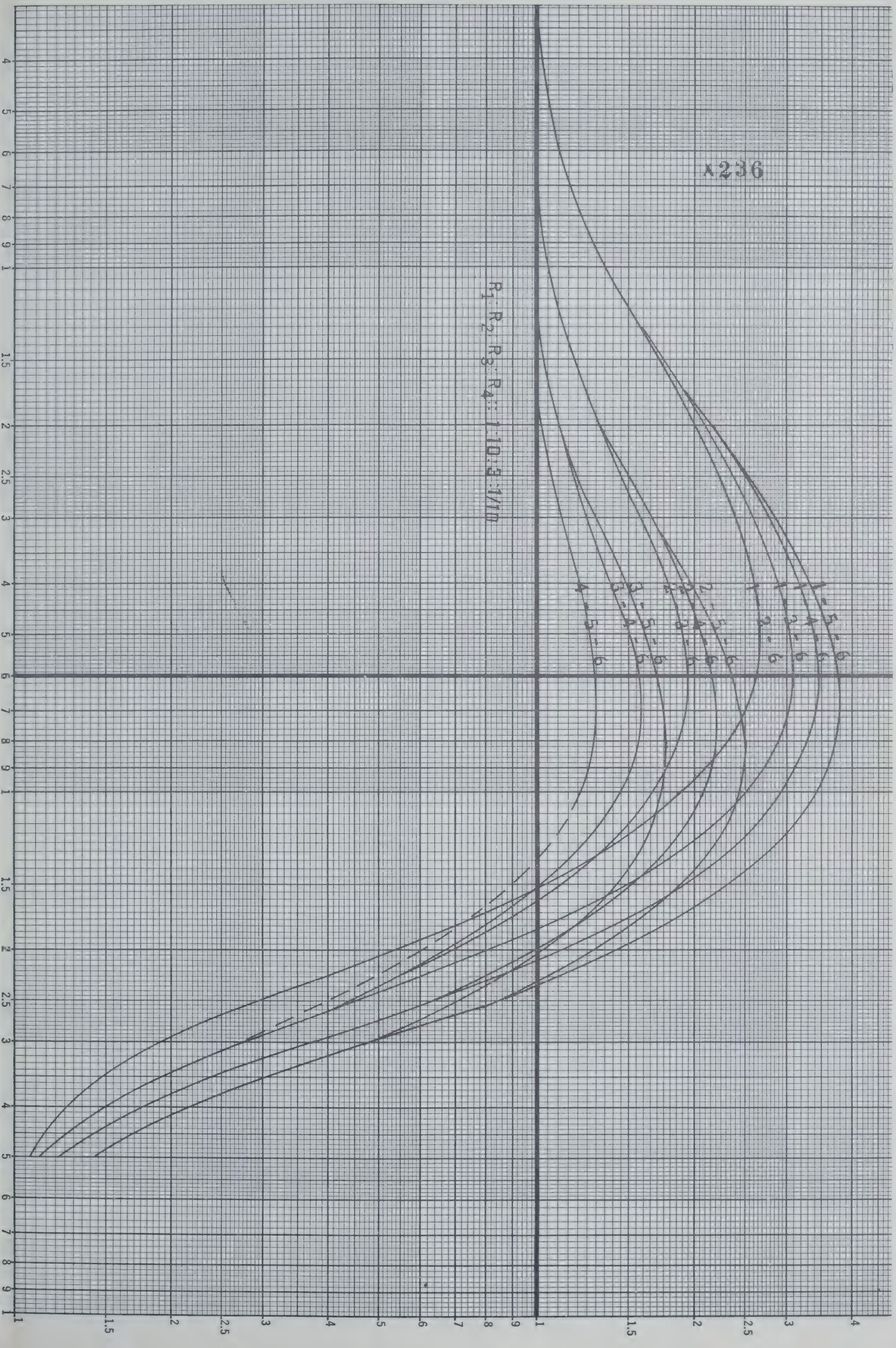

X217

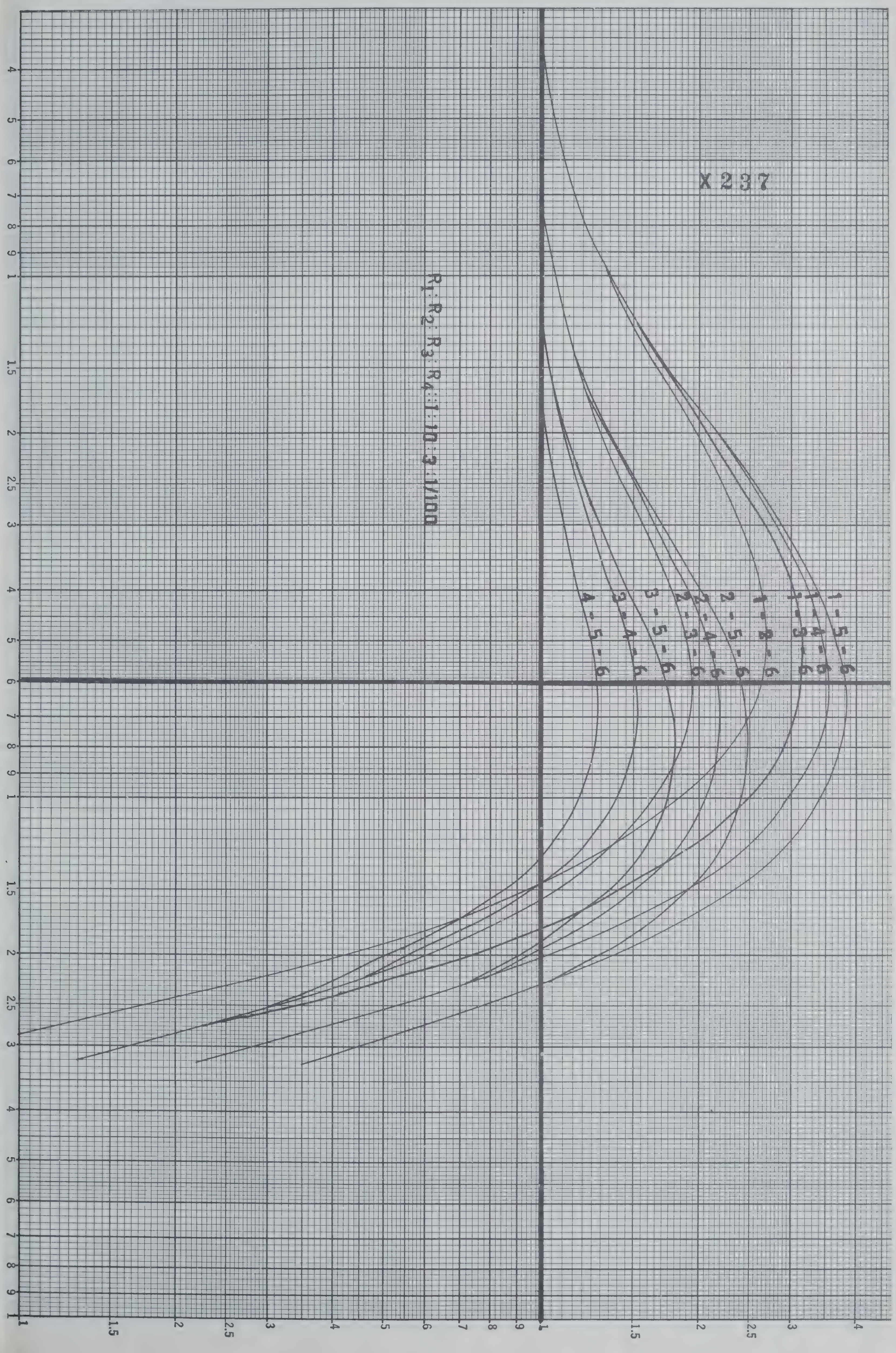

X231

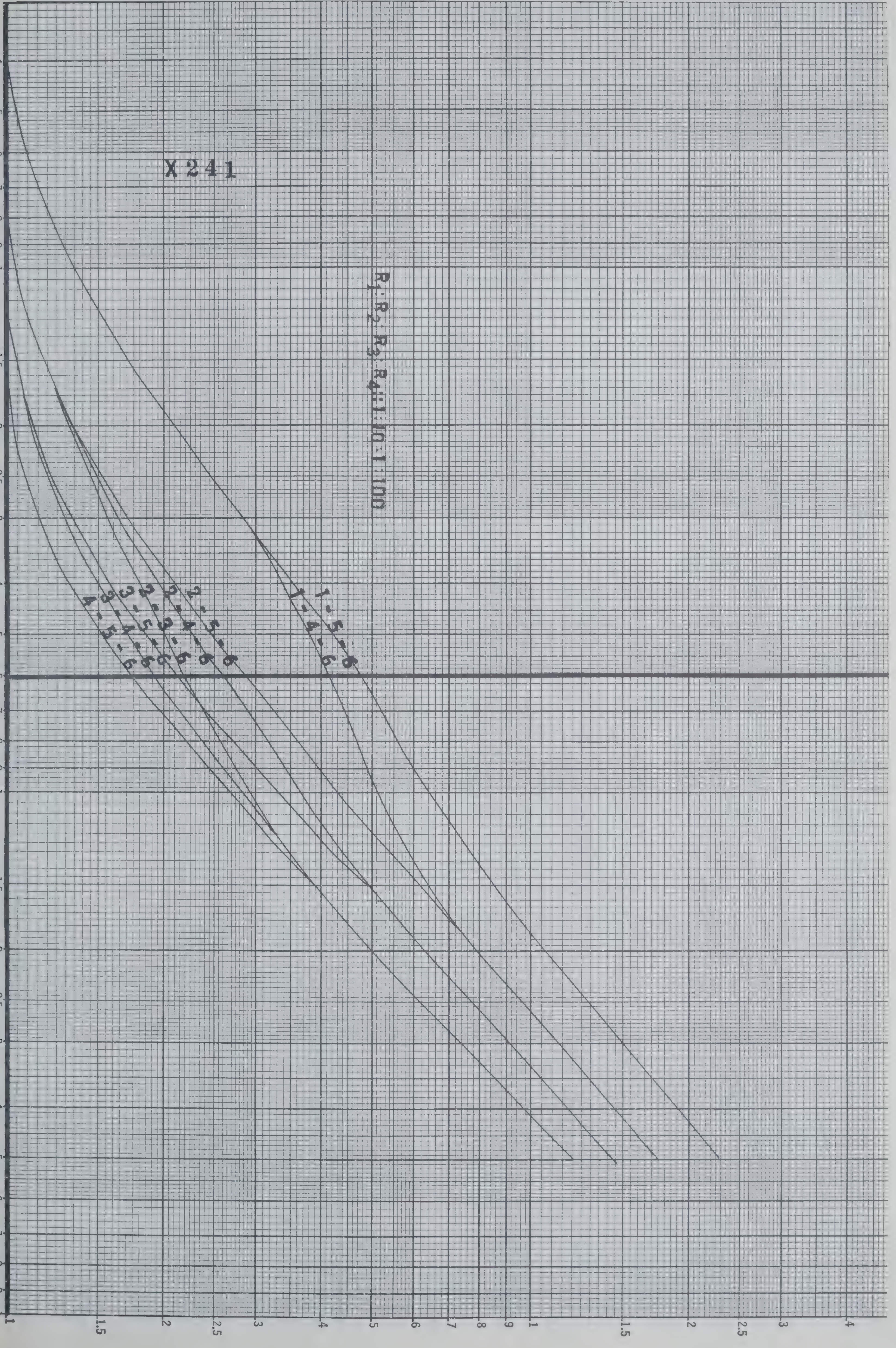

X232
R1:R2:R3:R4::1:10:3:10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

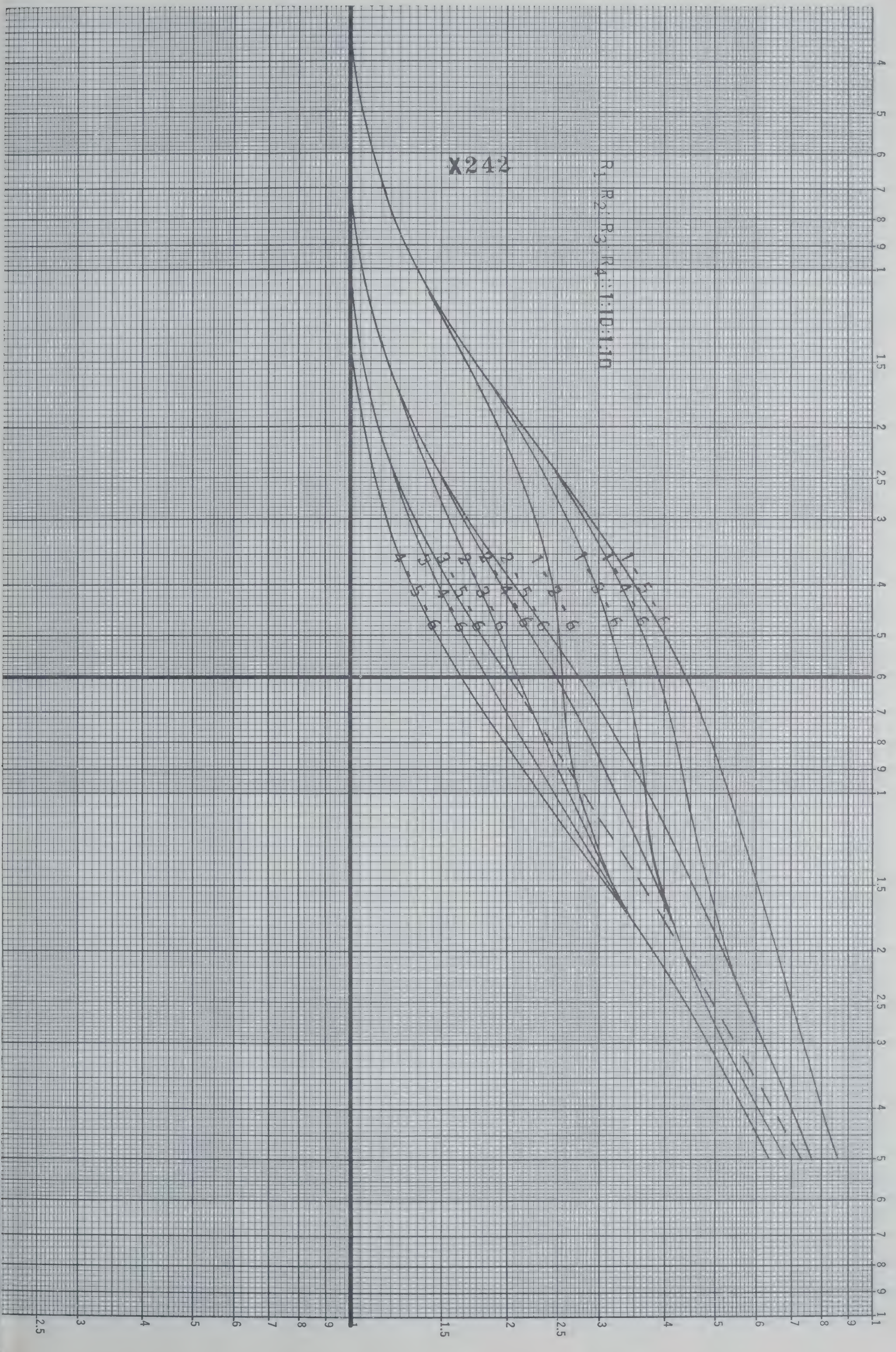

X 2 3 4
R1:R2:R3:R4::1:10:3:1
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

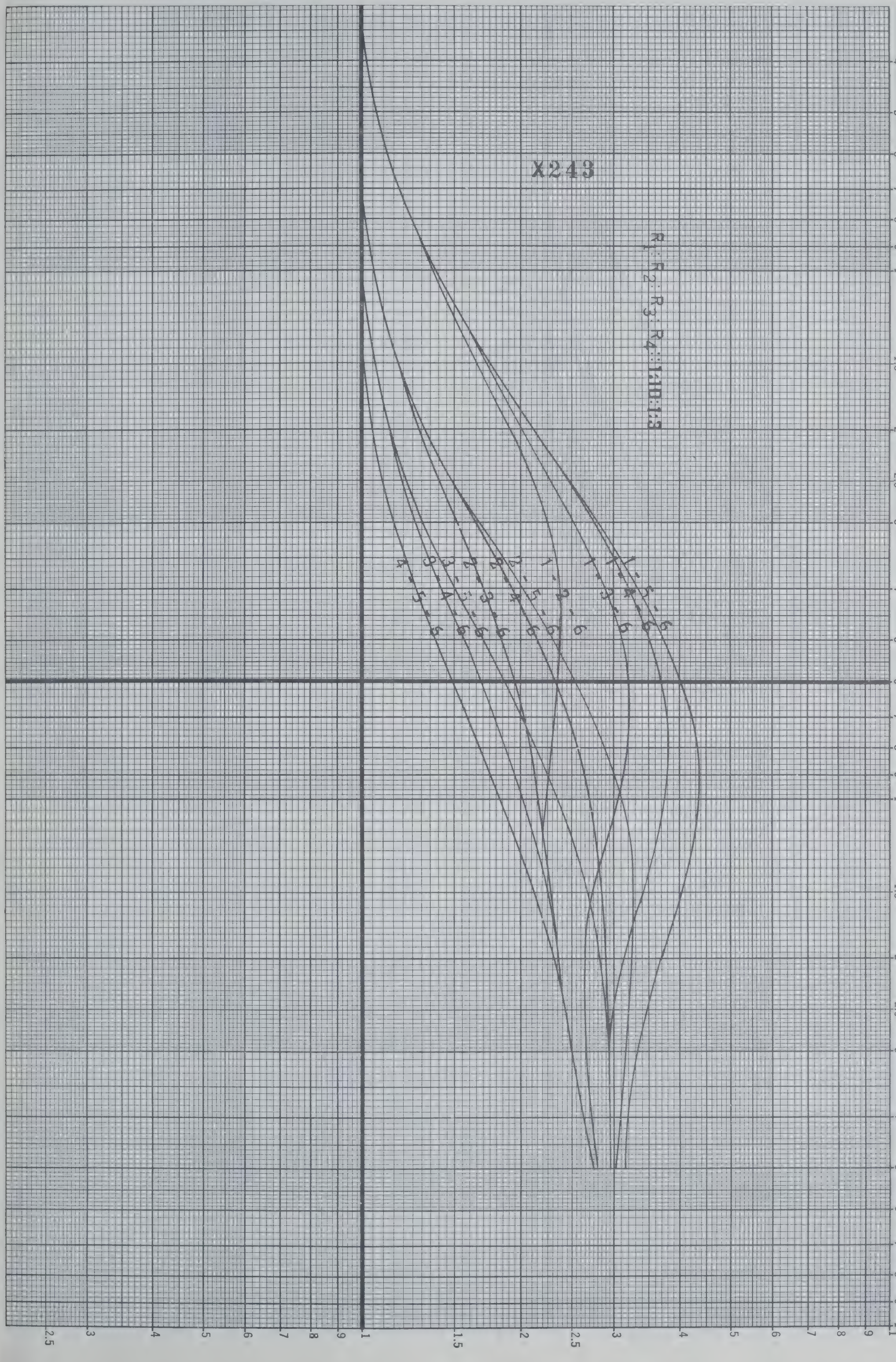

X 235
R1:R2:R3:R4::1:10:3:1/3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

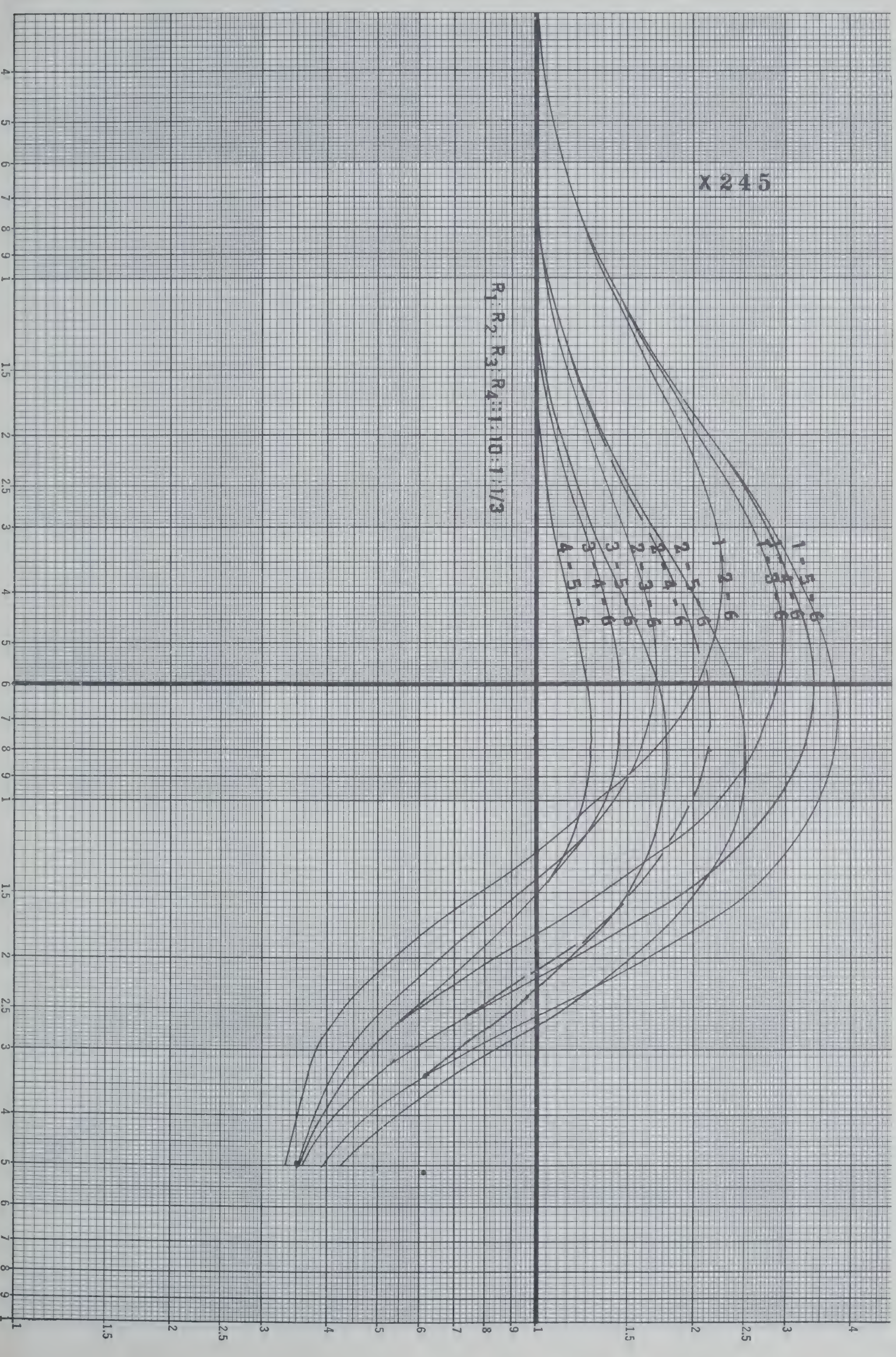

x236
R1:R2:R3:R4:: 1:10:3:1/10
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
1-2-6
1-3-6
1-4-6
1-5-6

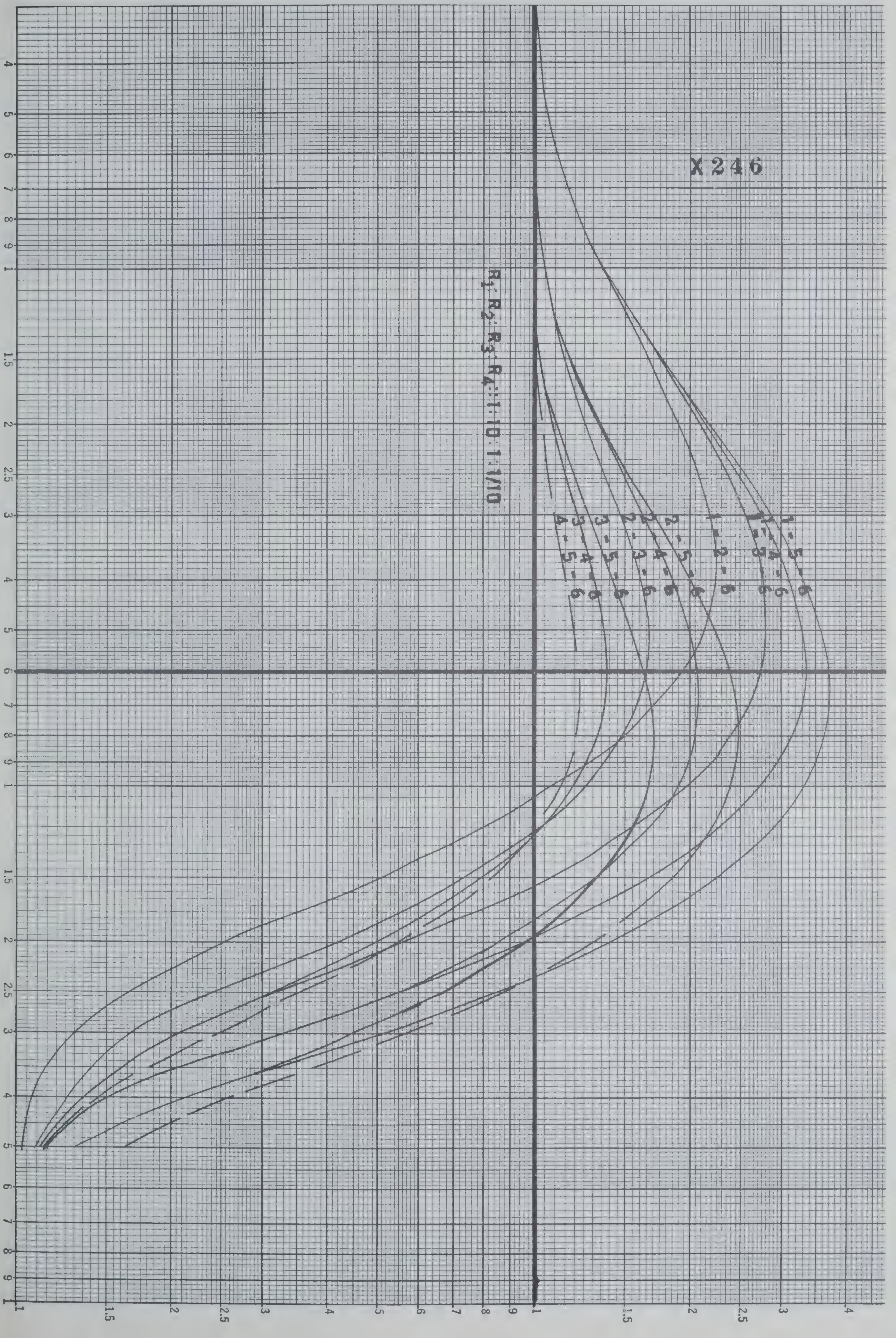

X 237
R1:R2:R3:R4::1:10:3:1/100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

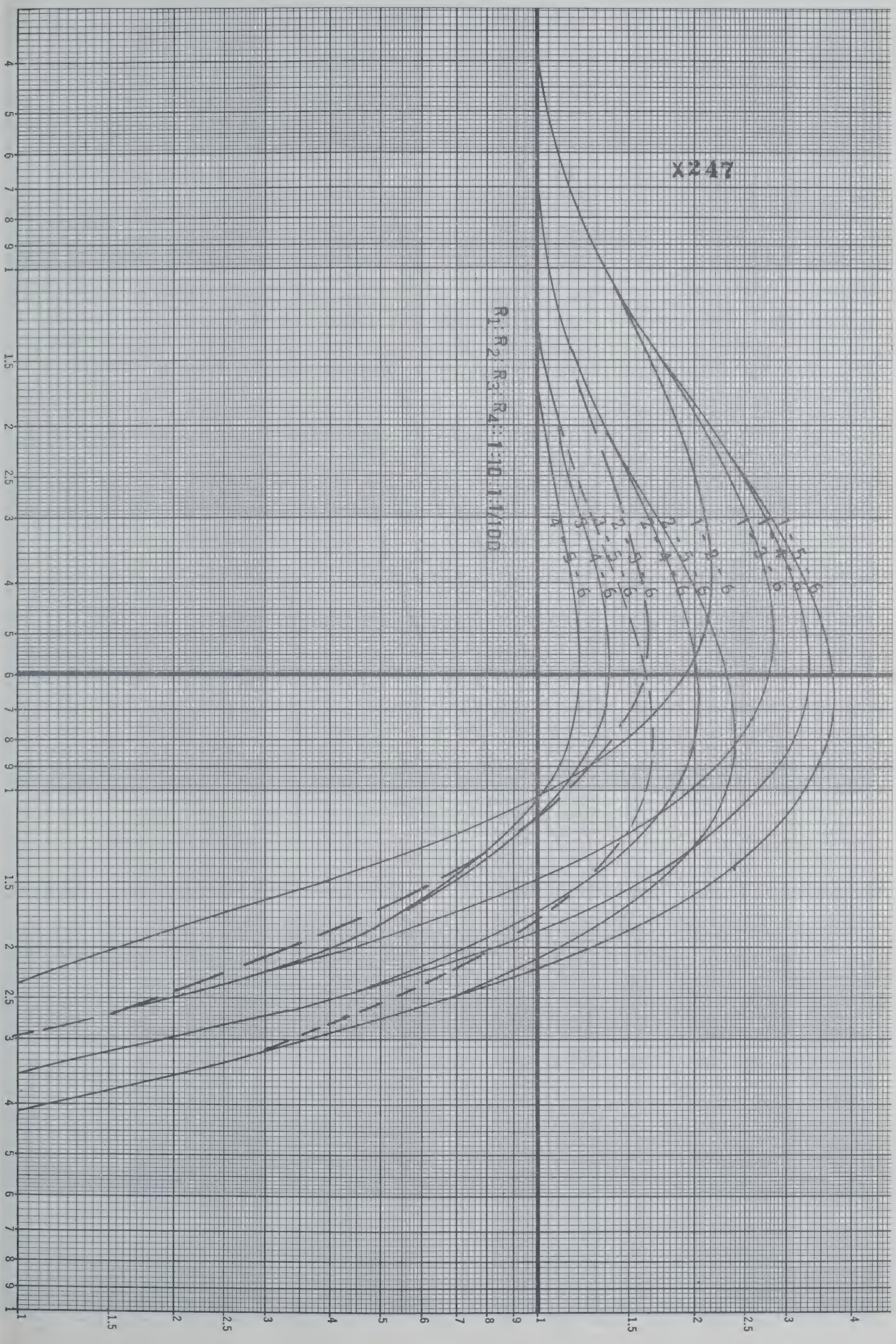

X 241
$R_1:R_2:R_3:R_4::1:10:1:100$
1-5-6
1-4-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

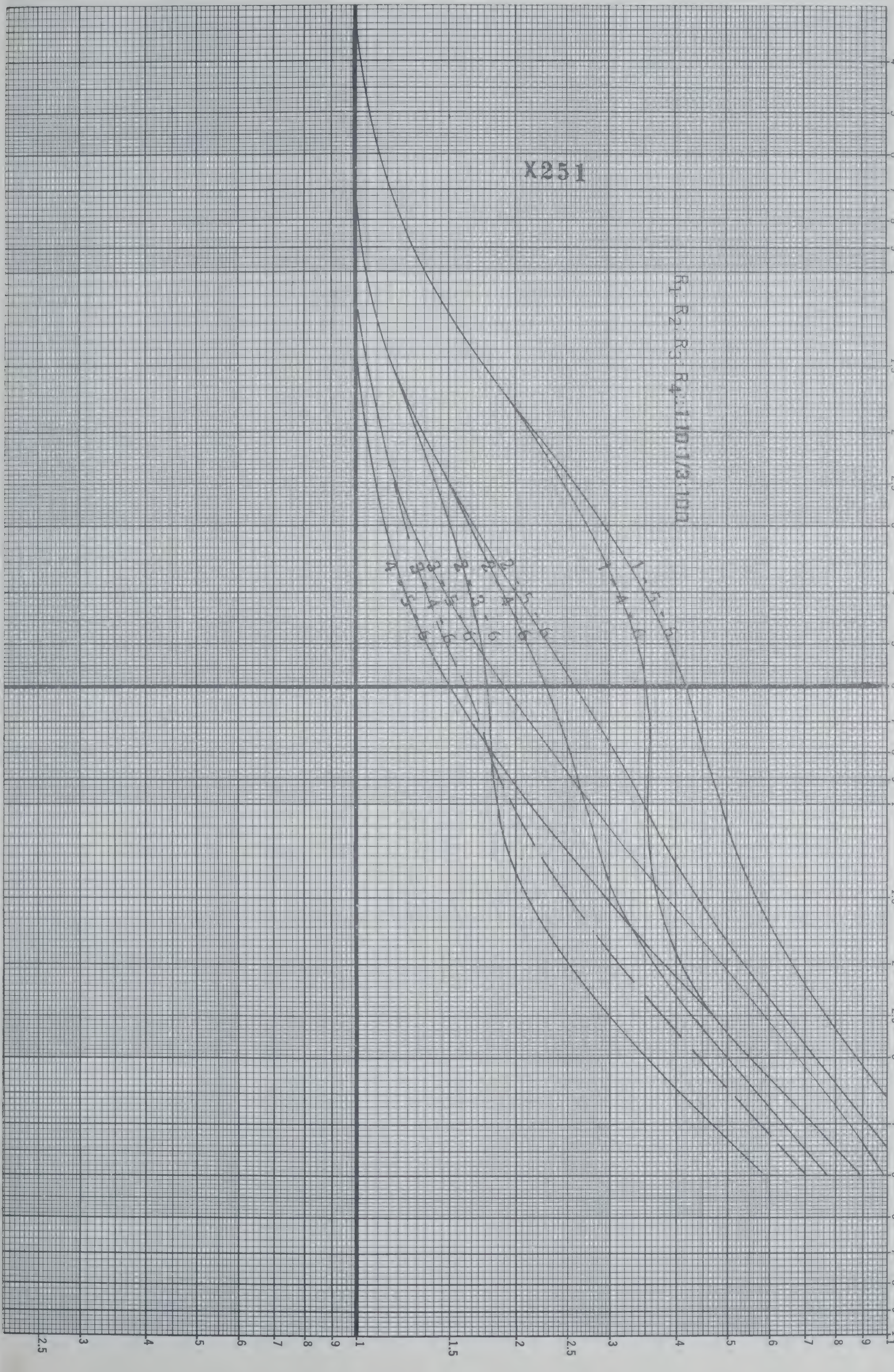

X242
$R_1:R_2:R_3:R_4::1:10:1:10$

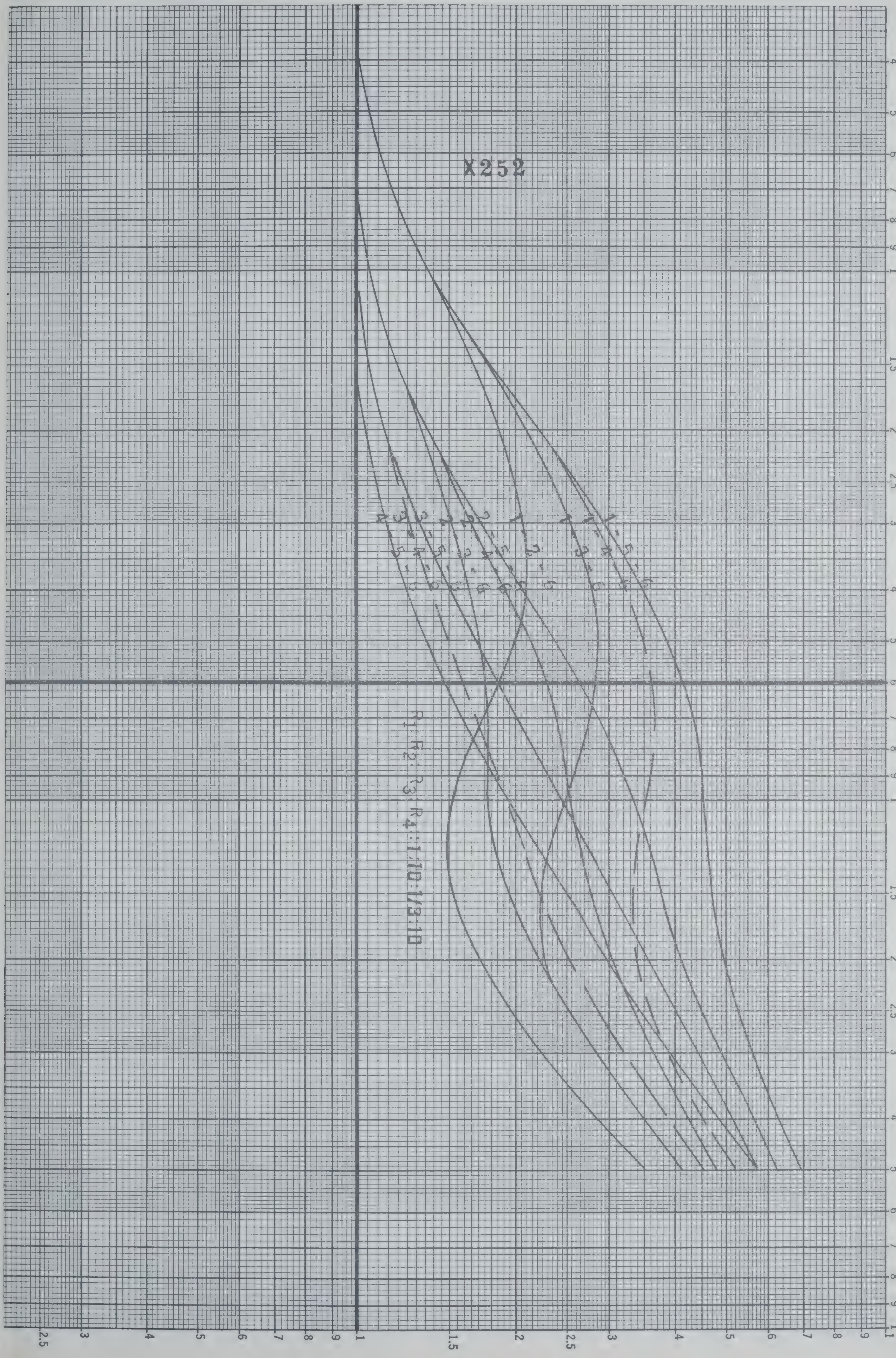

X243
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

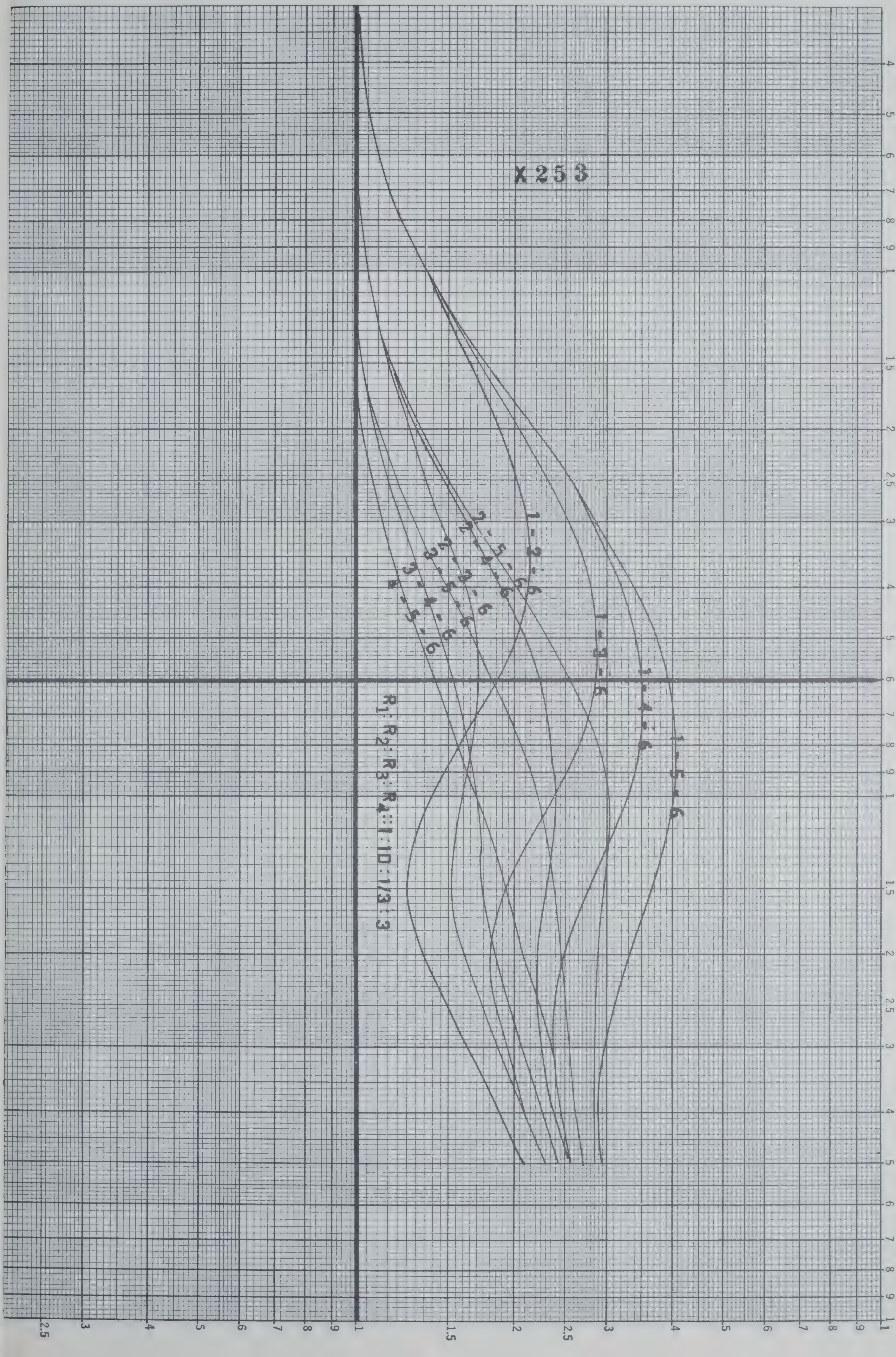

X 245
$R_1:R_2:R_3:R_4::1:10:1:1/3$
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

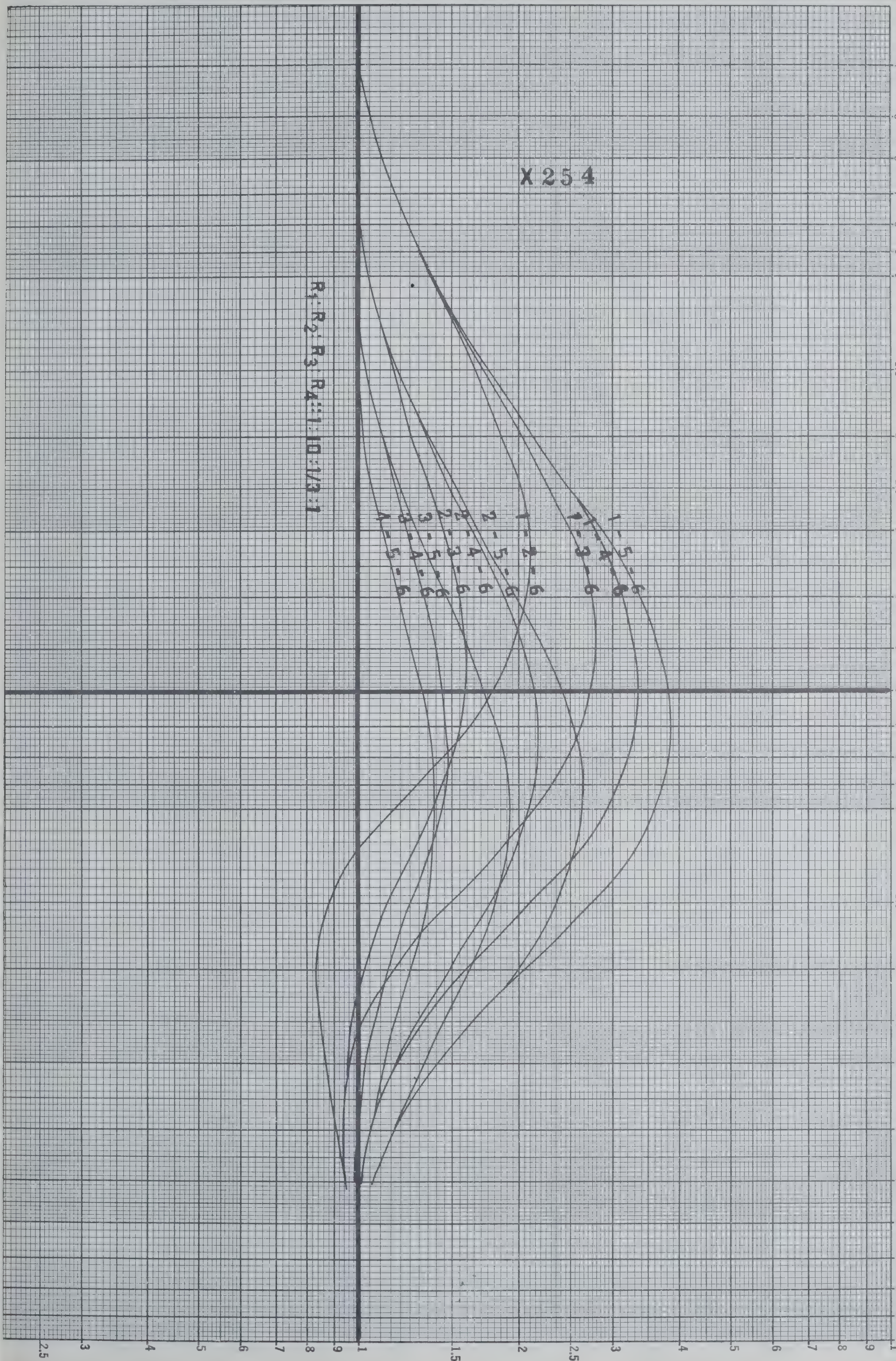

X 246
R1:R2:R3:R4::1:10:1:1/10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

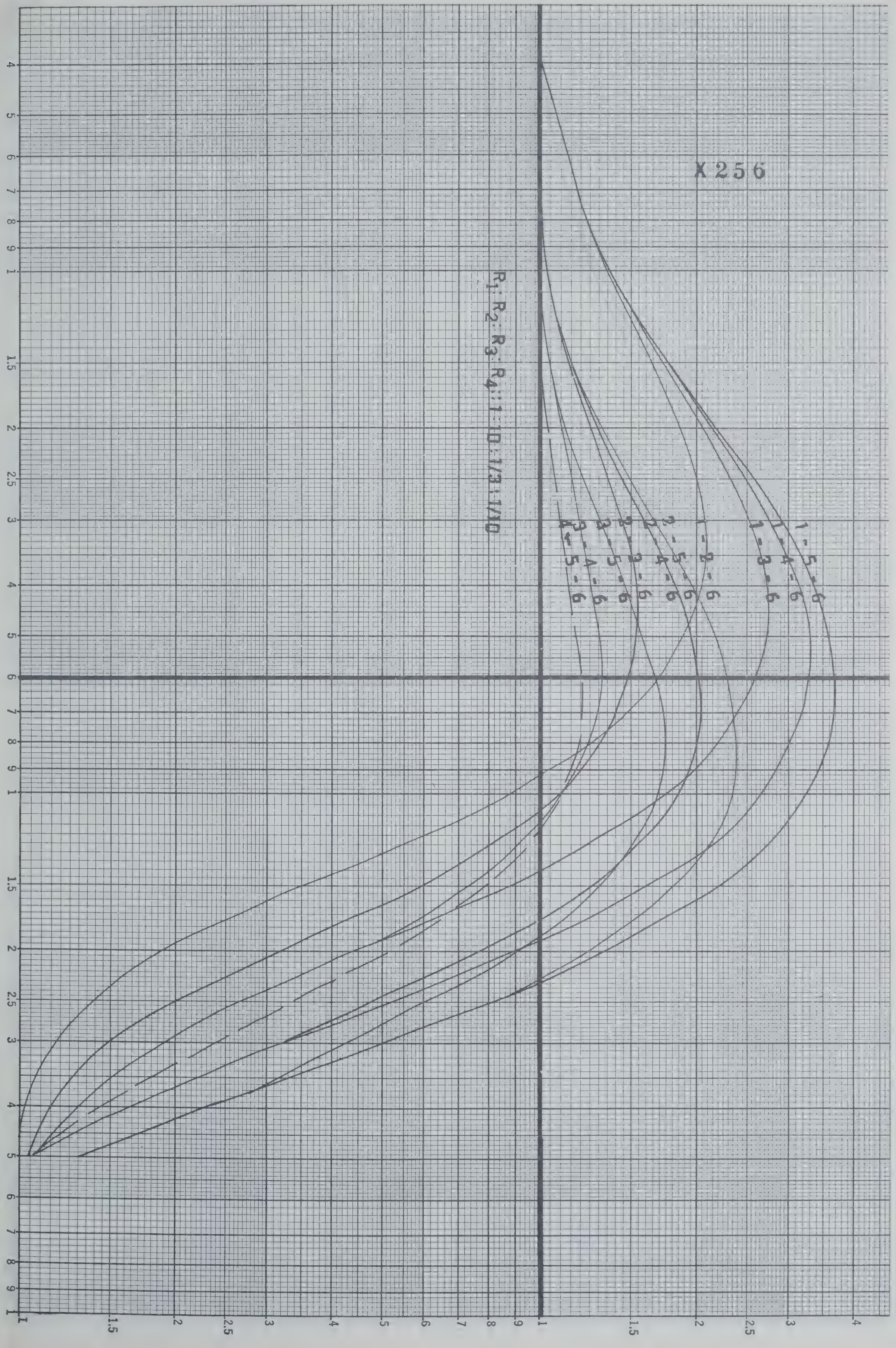

X247
R1:R2:R3:R4::1:10:1:1/100

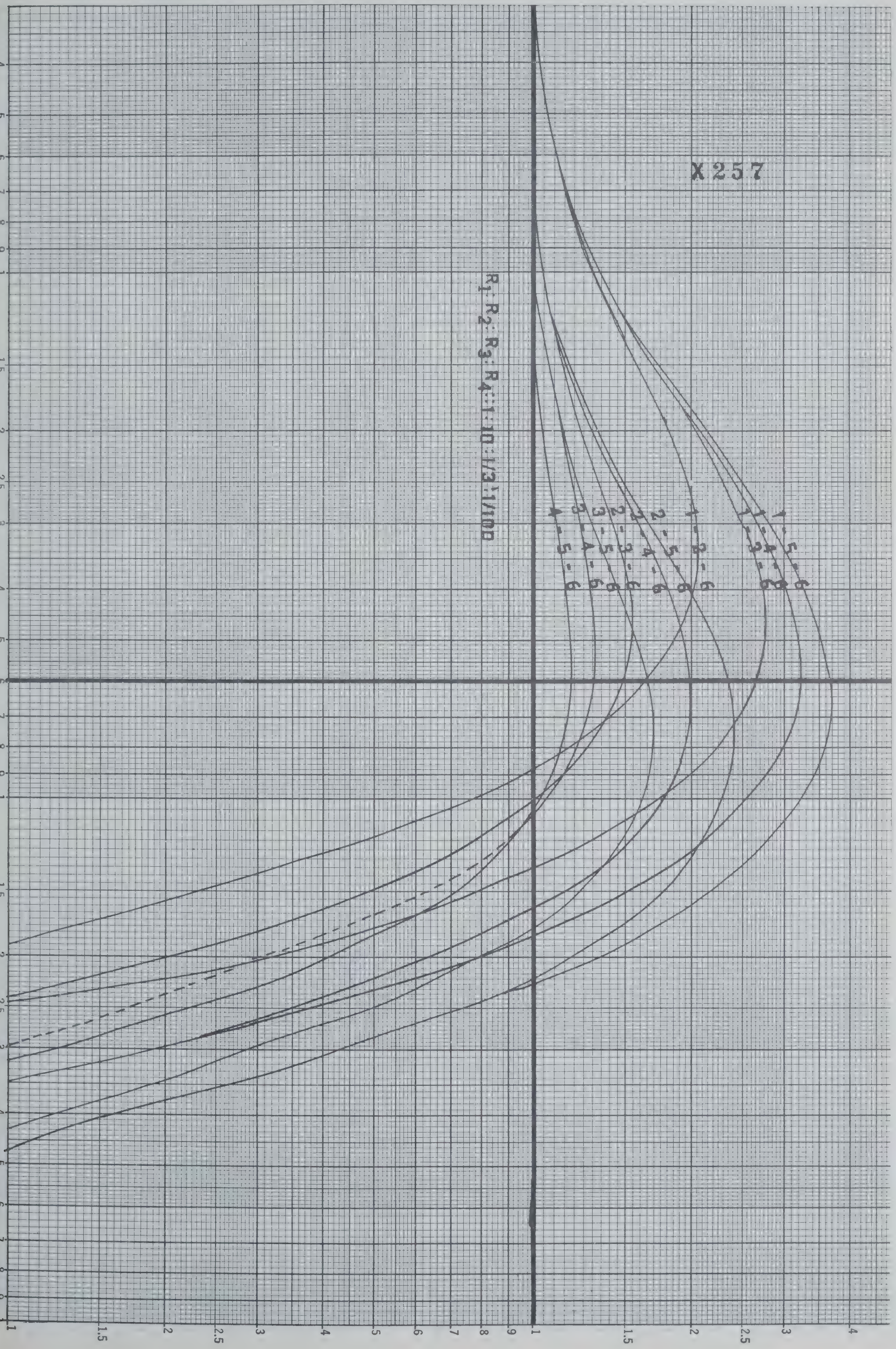

X251
R1 R2 R3 R4: 1:10:1/3:100

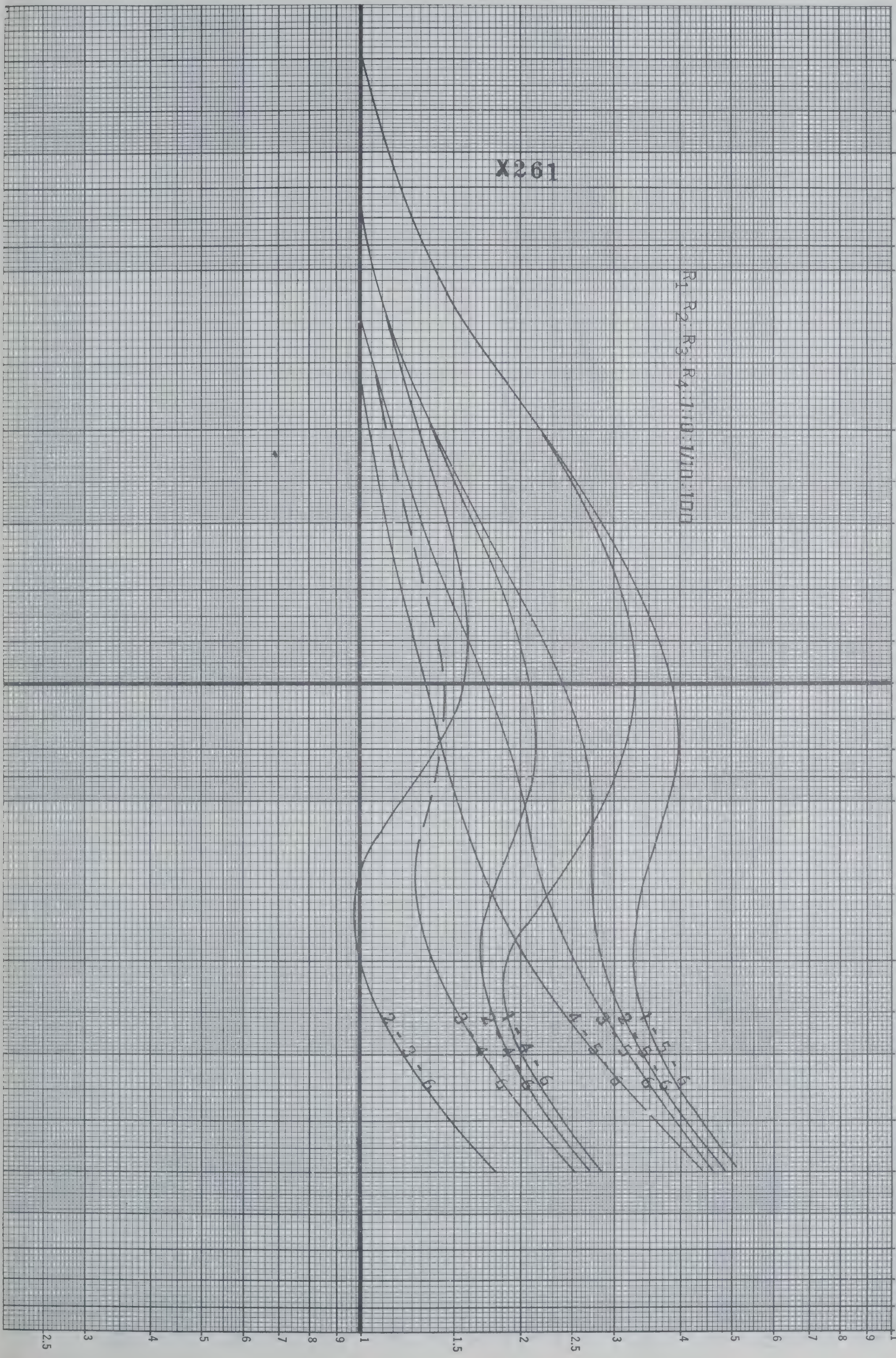

X252
R1:R2:R3:R4::1:10:1/3:10

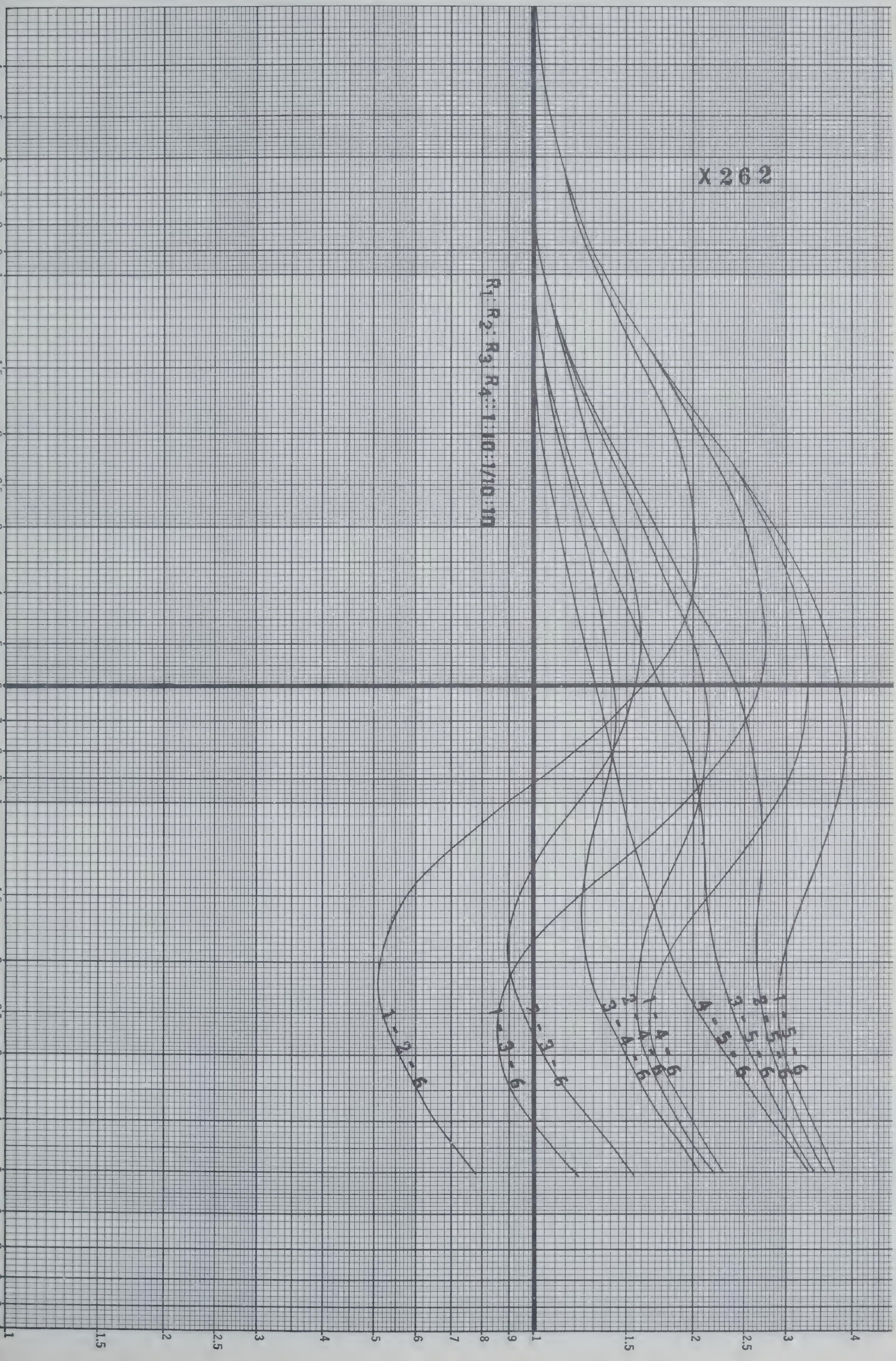

X 253
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6
1-3-6
1-4-6
1-5-6
R1: R2: R3: R4 :: 1: 10: 1/3: 3

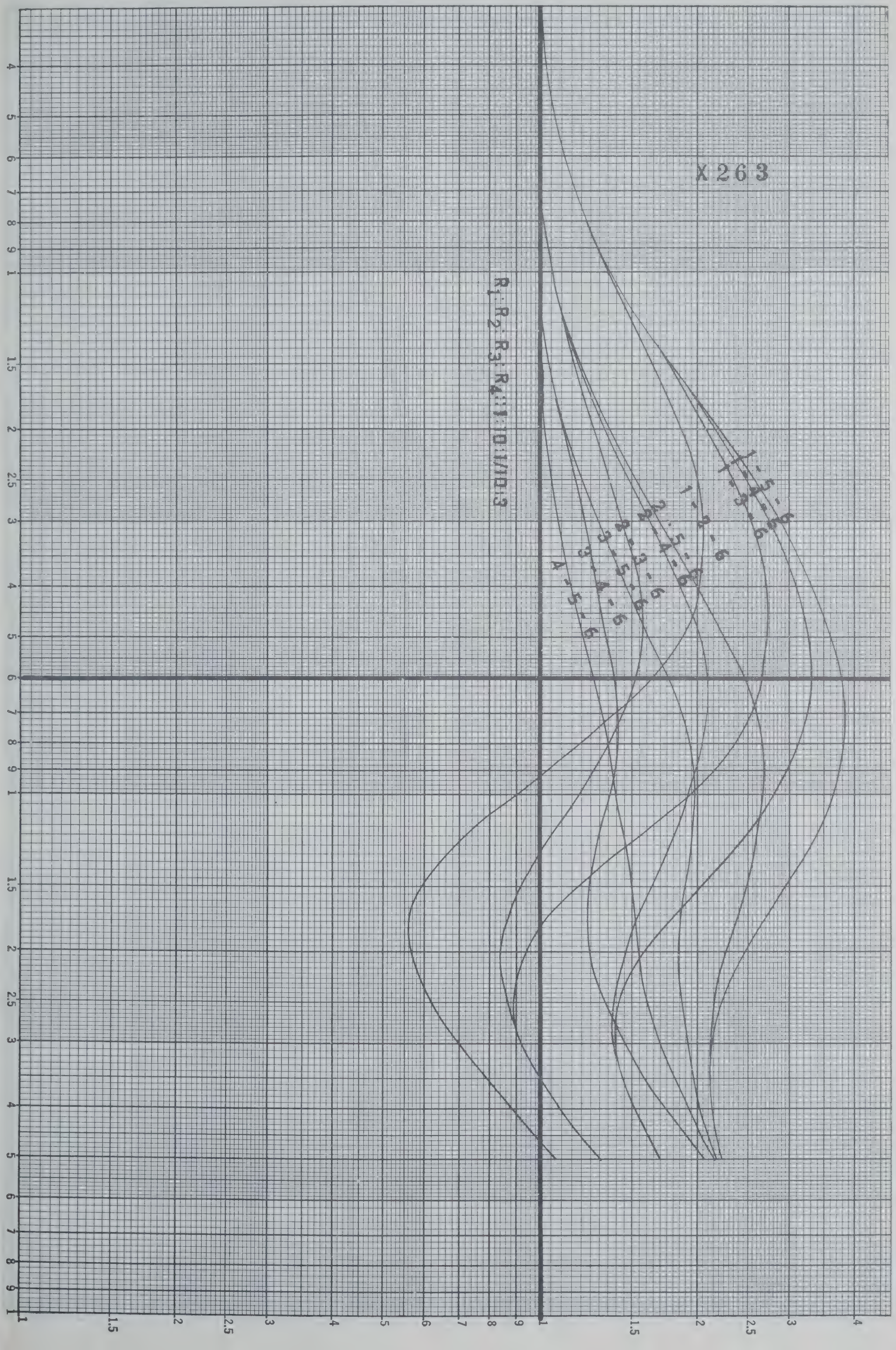

X 254
R1:R2:R3:R4::1:10:1/3:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

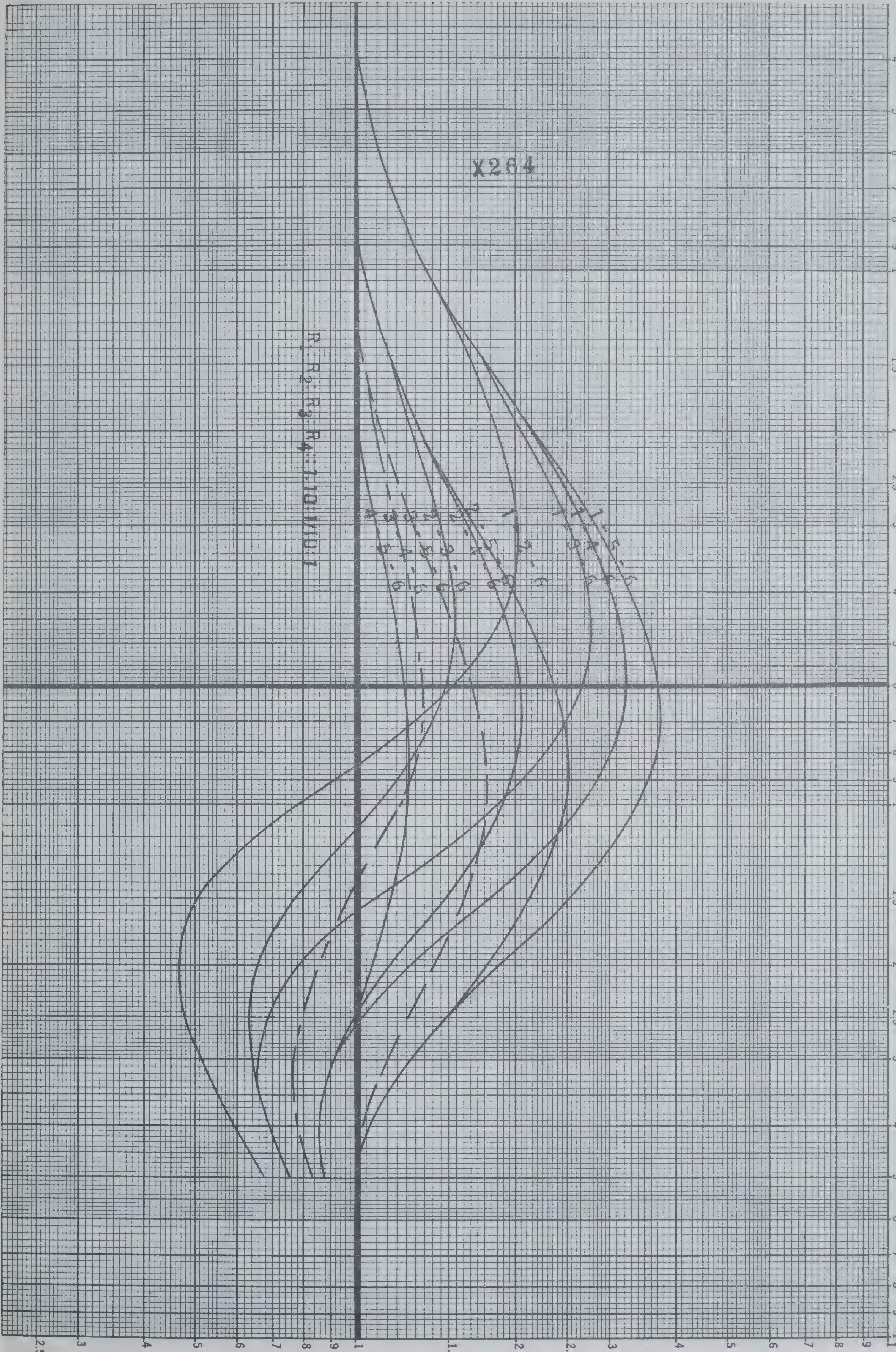

X 256
R1:R2:R3:R4::1:10:1/3:1/10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X 257
R1: R2: R3: R4: 1:10:1/3:1/100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X261
R_1 : R_2 : R_3 : R_4 1:10:1/10:100
2-3-6
3-4-6
2-4-6
1-4-6
4-5-6
3-5-6
2-5-6
1-5-6


X 262
$R_1:R_2:R_3:R_4::1:10:1/10:10$
1-2-6
1-3-6
2-3-6
3-4-6
2-4-6
1-4-6
4-5-6
3-5-6
2-5-6
1-5-6


X 263
R1:R2:R3:R4::1:10:1/10:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X264
R1:R2:R3:R4::1:10:1/10:1

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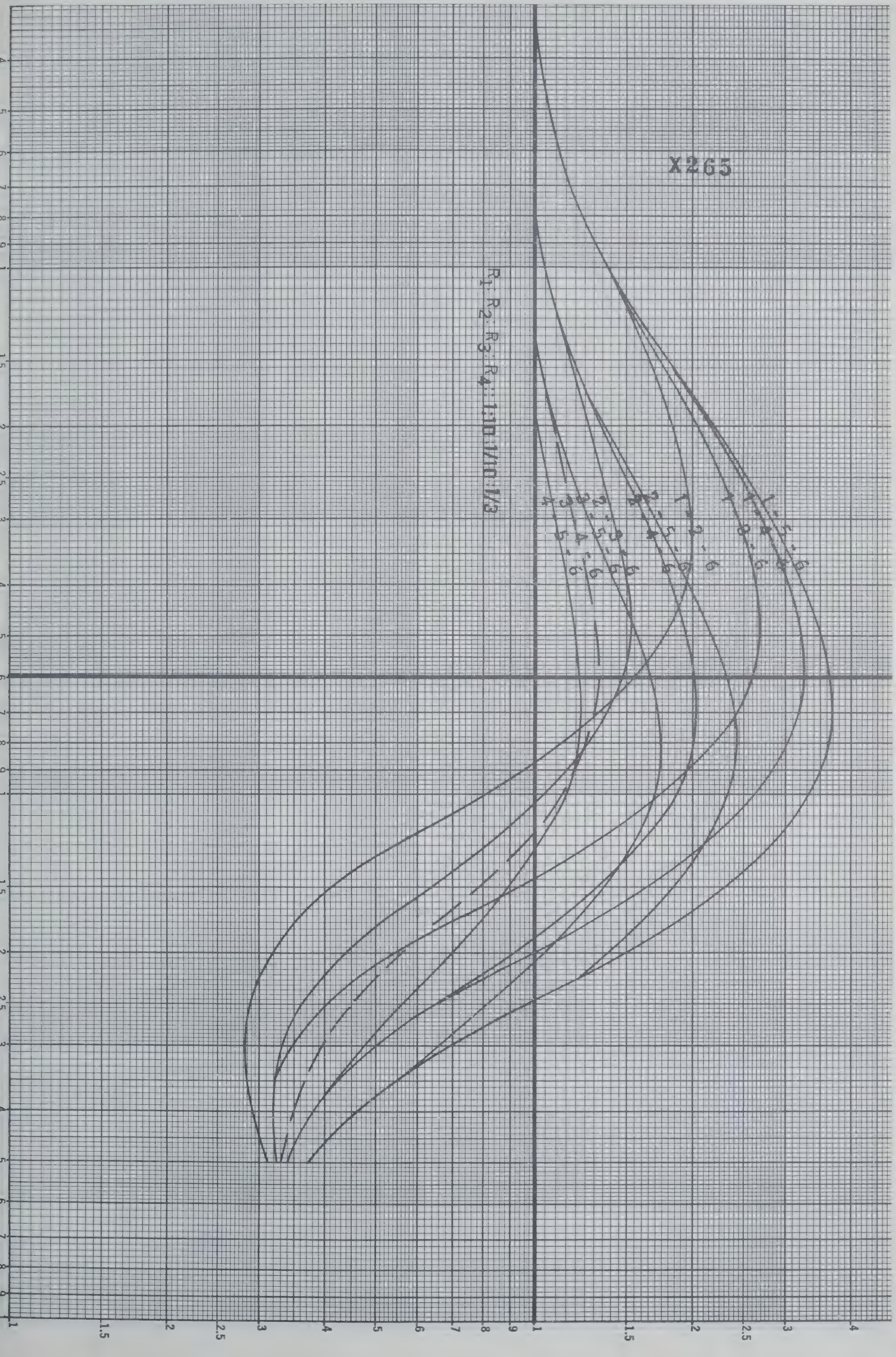
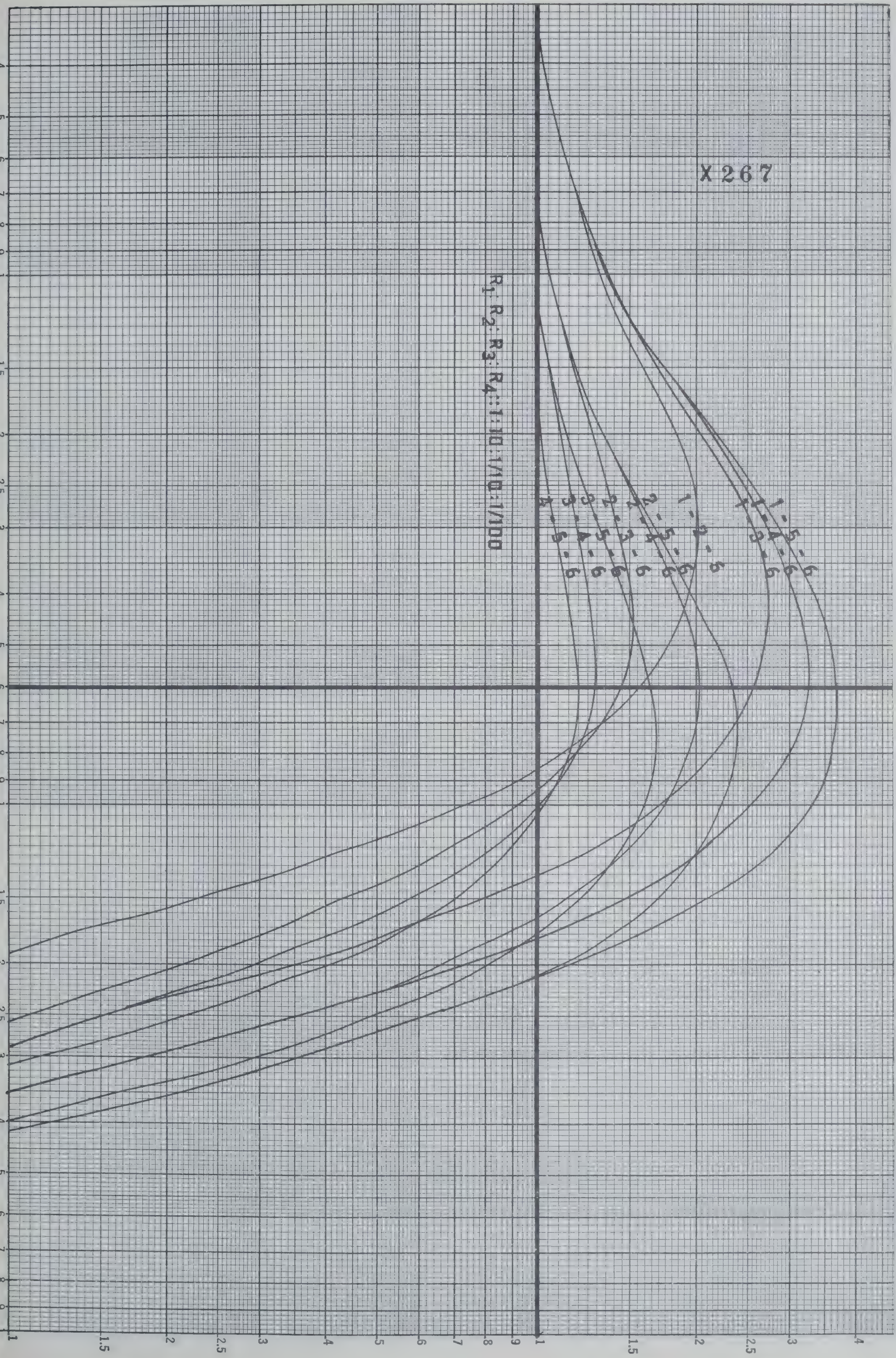
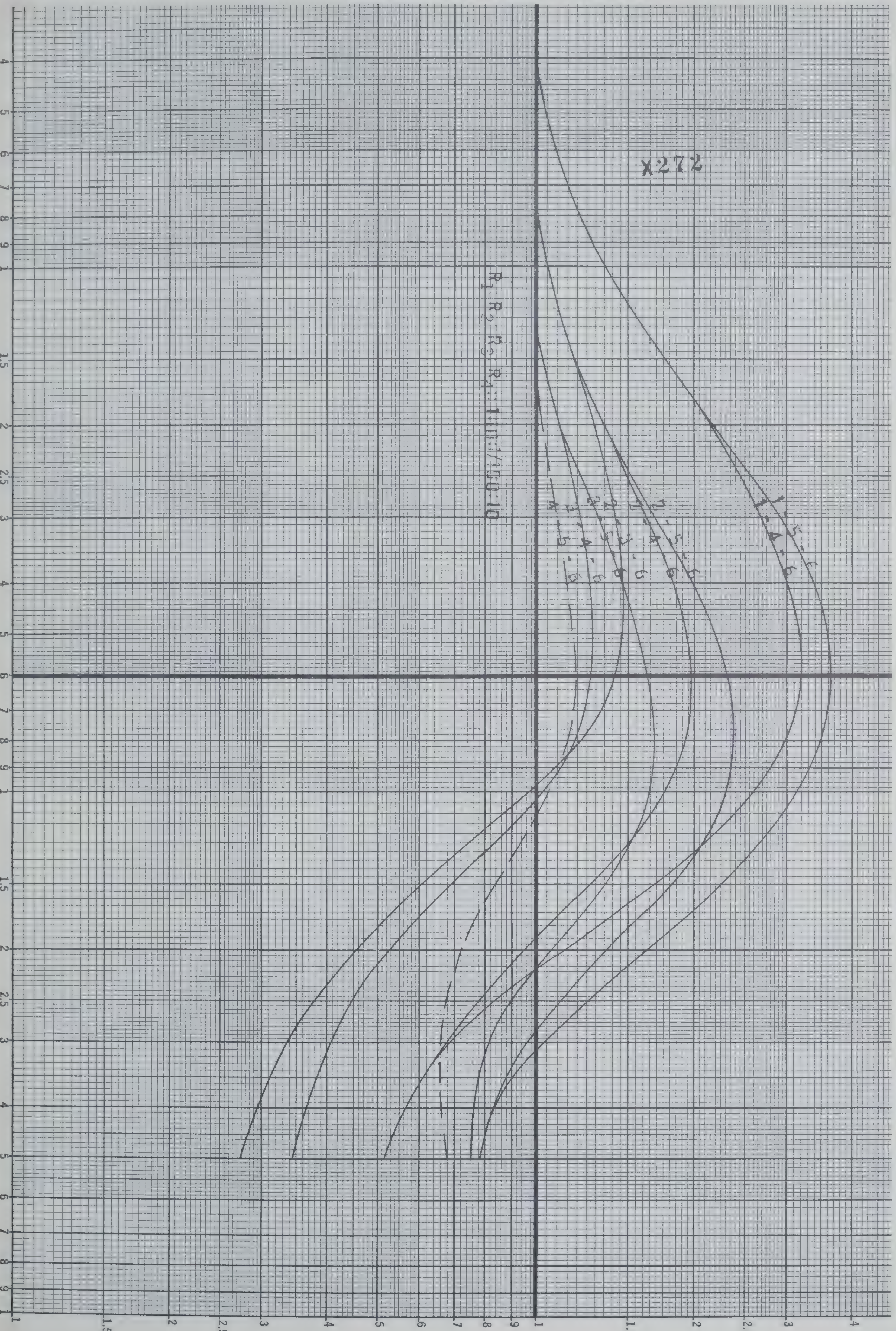
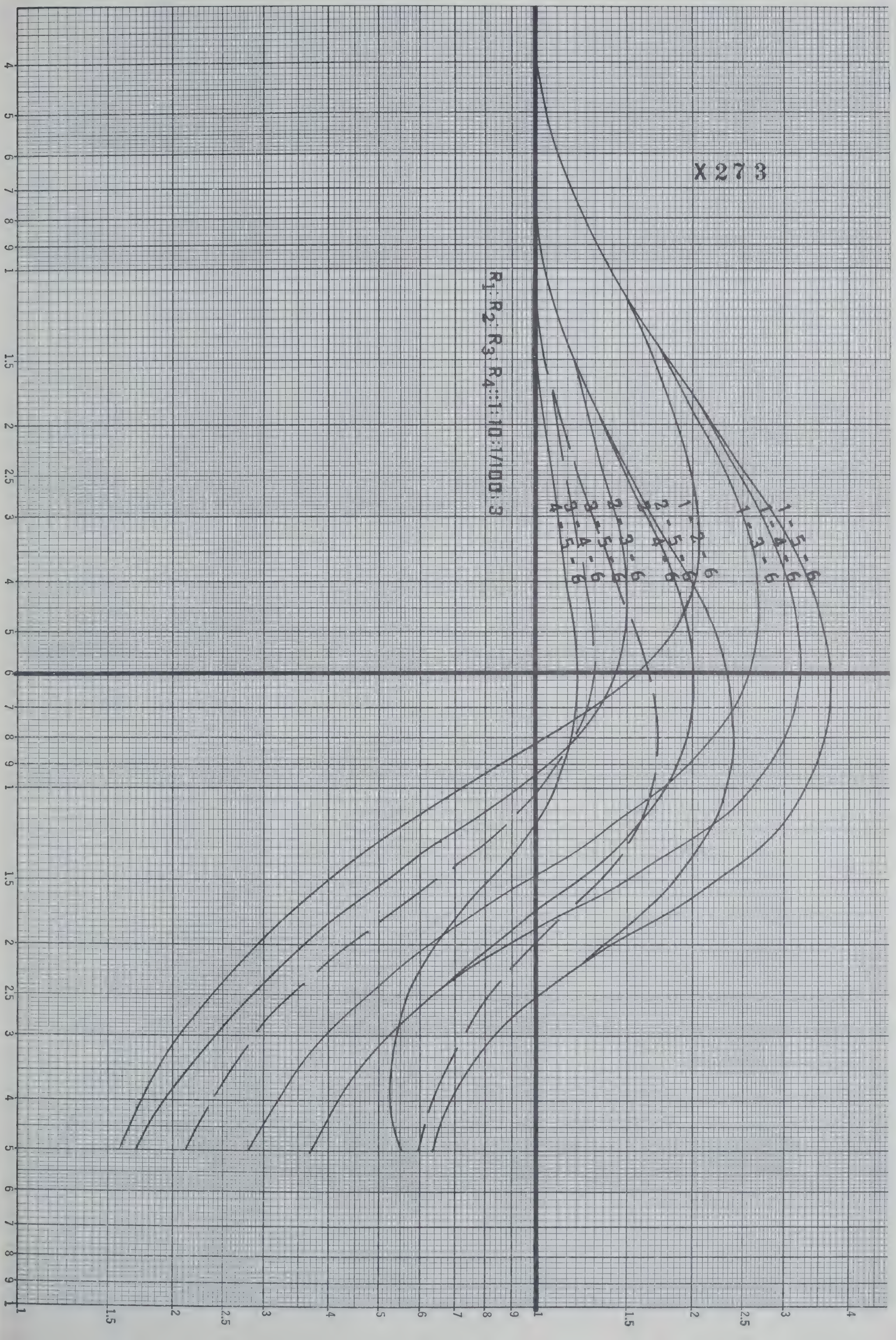
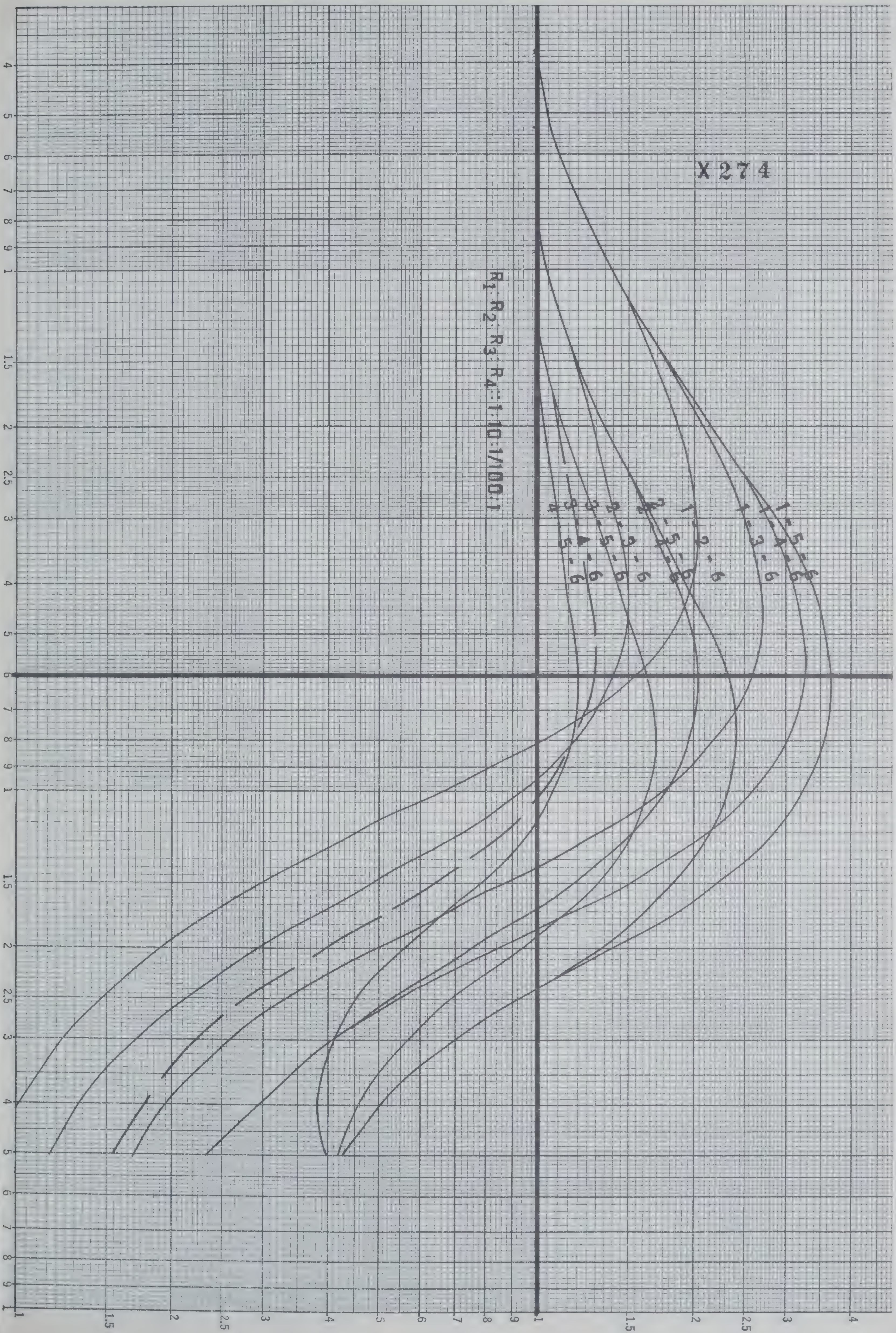
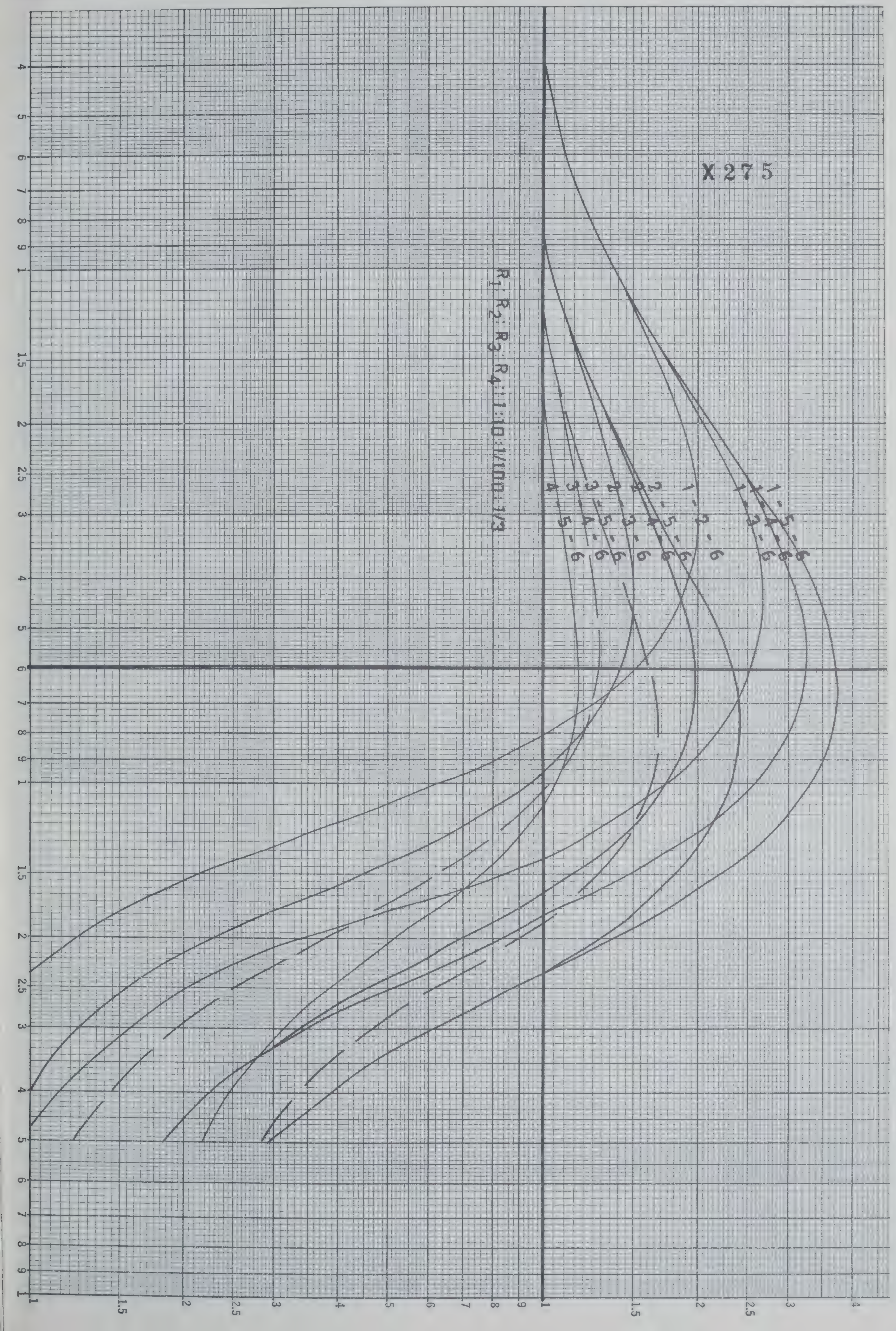



X 267
R1:R2:R3:R4::1:10:1/10:1/100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X272


X 273
R1:R2:R3:R4::1:10:1/100:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X 274
R1:R2:R3:R4::1:10:1/100:1
1-5-6
1-4-6
1-3-6
1-2-6
2-4-6
2-5-6
2-3-6
3-5-6
3-4-6
4-5-6


X 275
R1: R2: R3: R4::1:10:1/100:1/3
4-5-6
3-4-6
3-5-6
2-3-6
2-4-6
2-5-6
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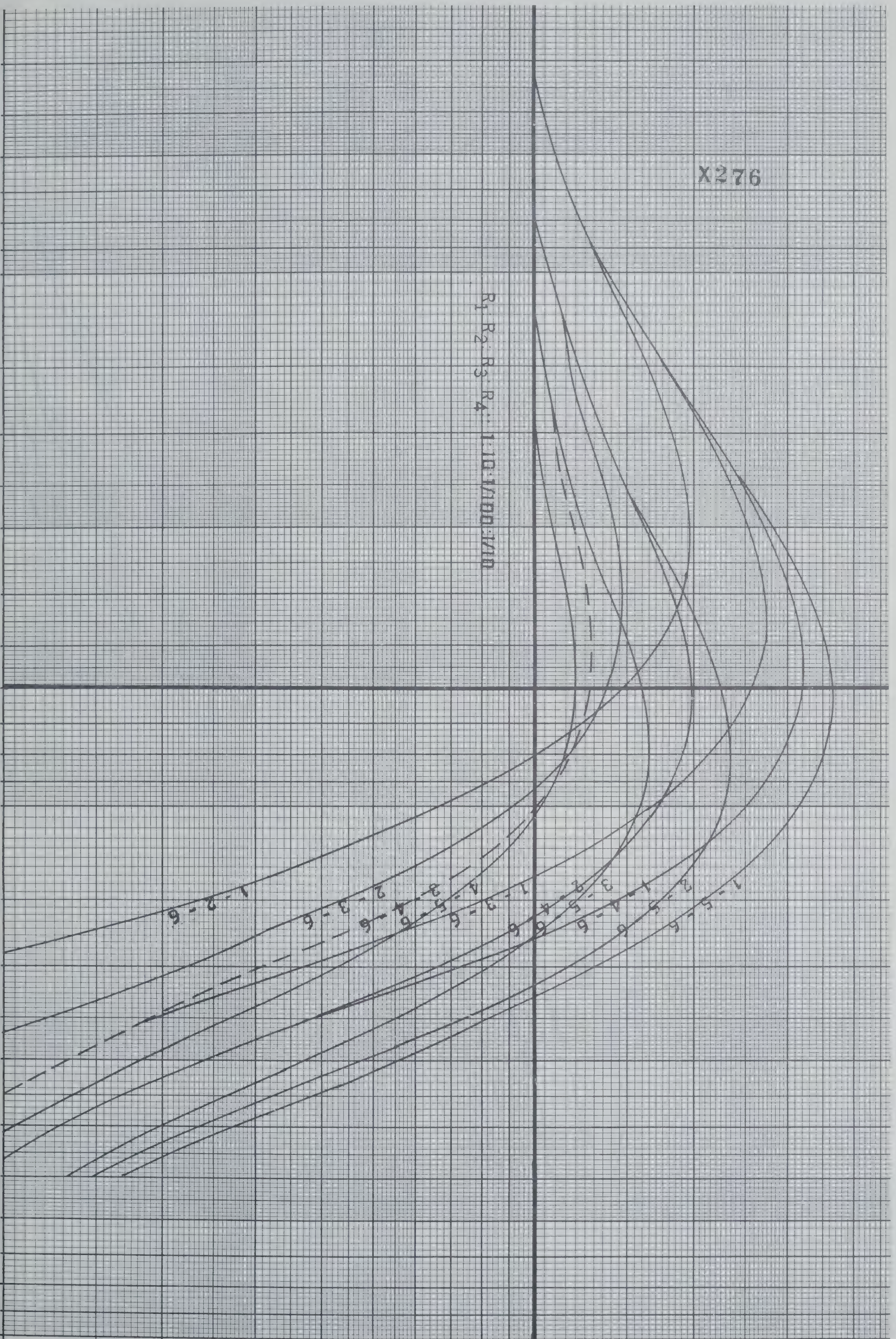
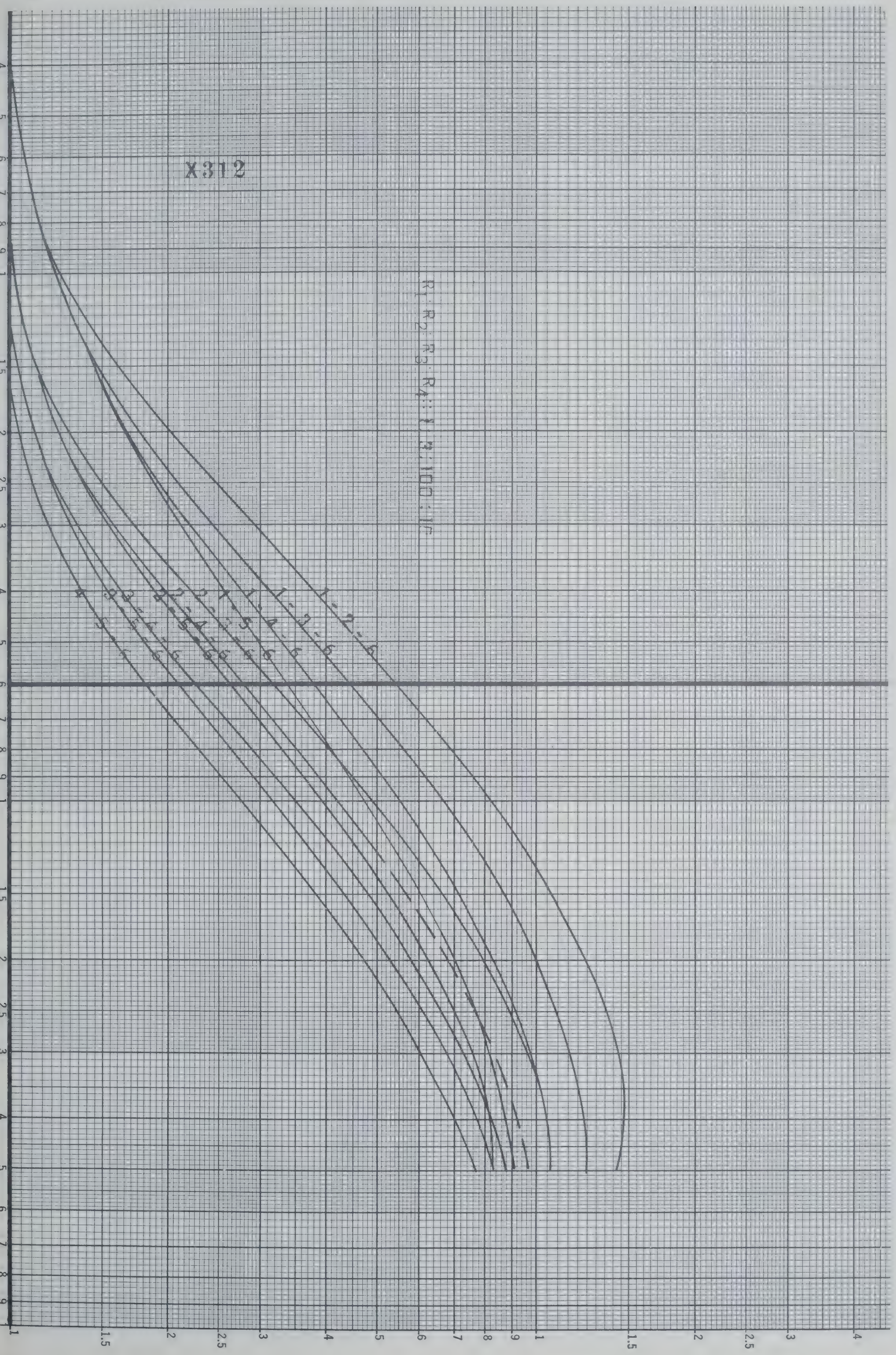
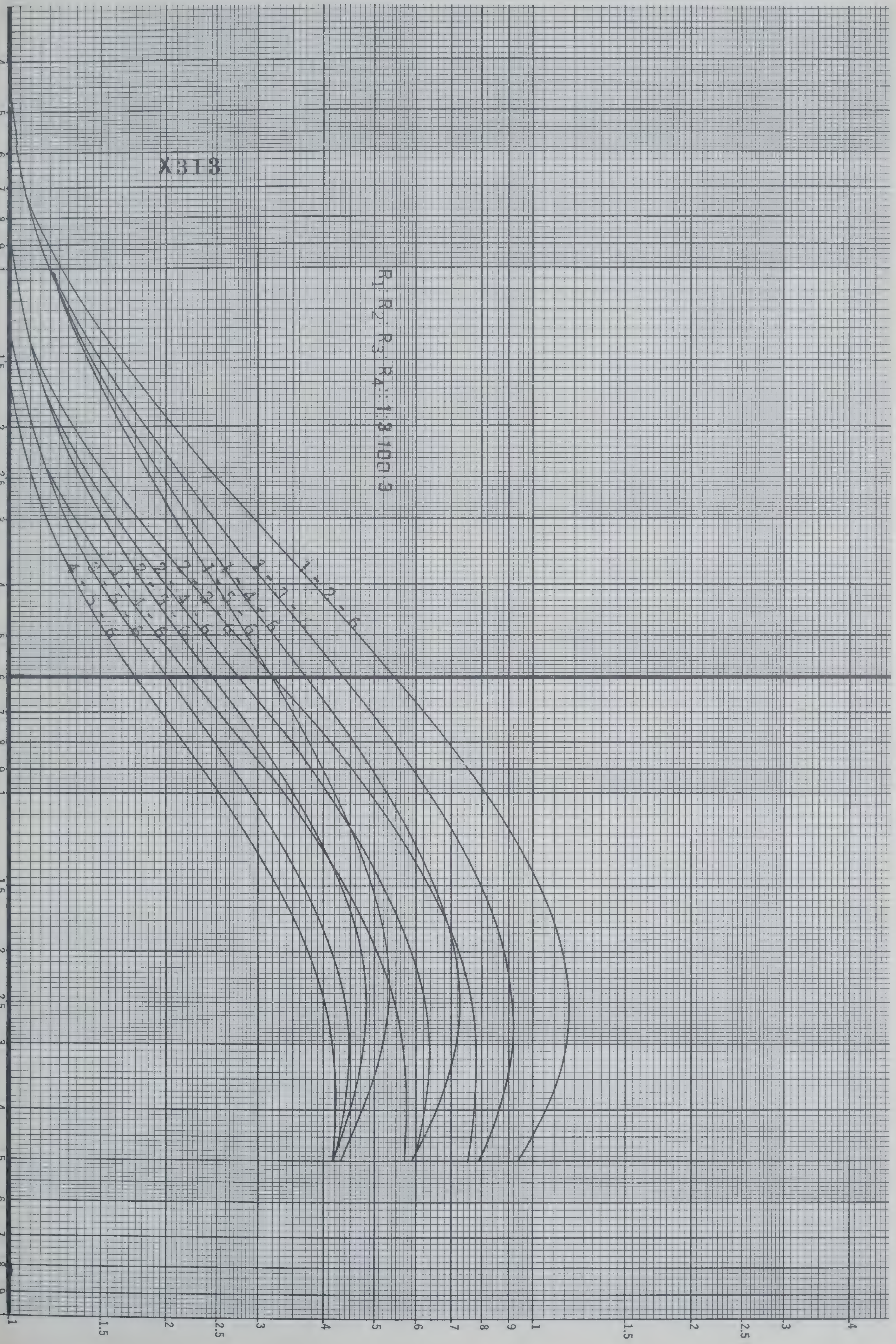
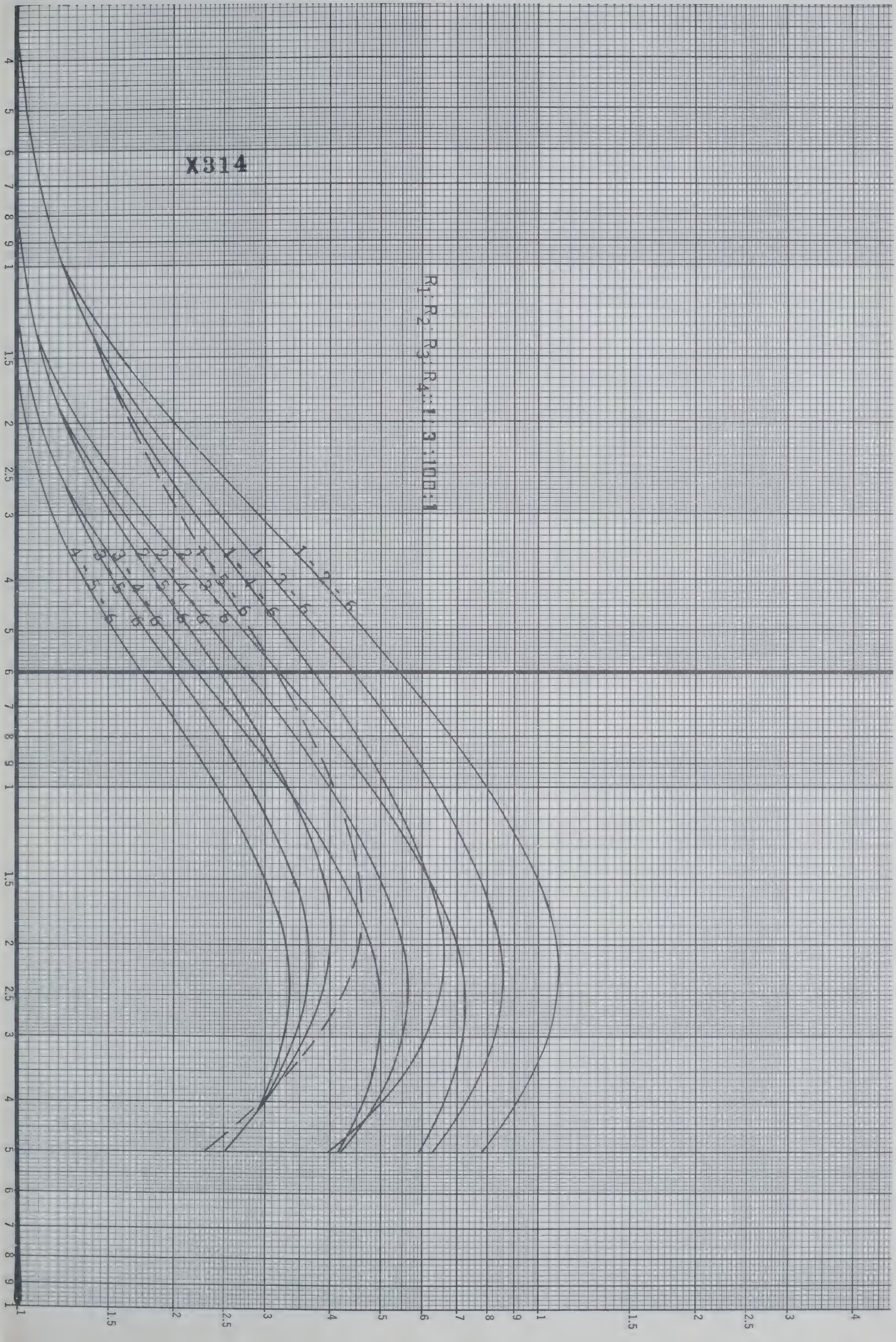
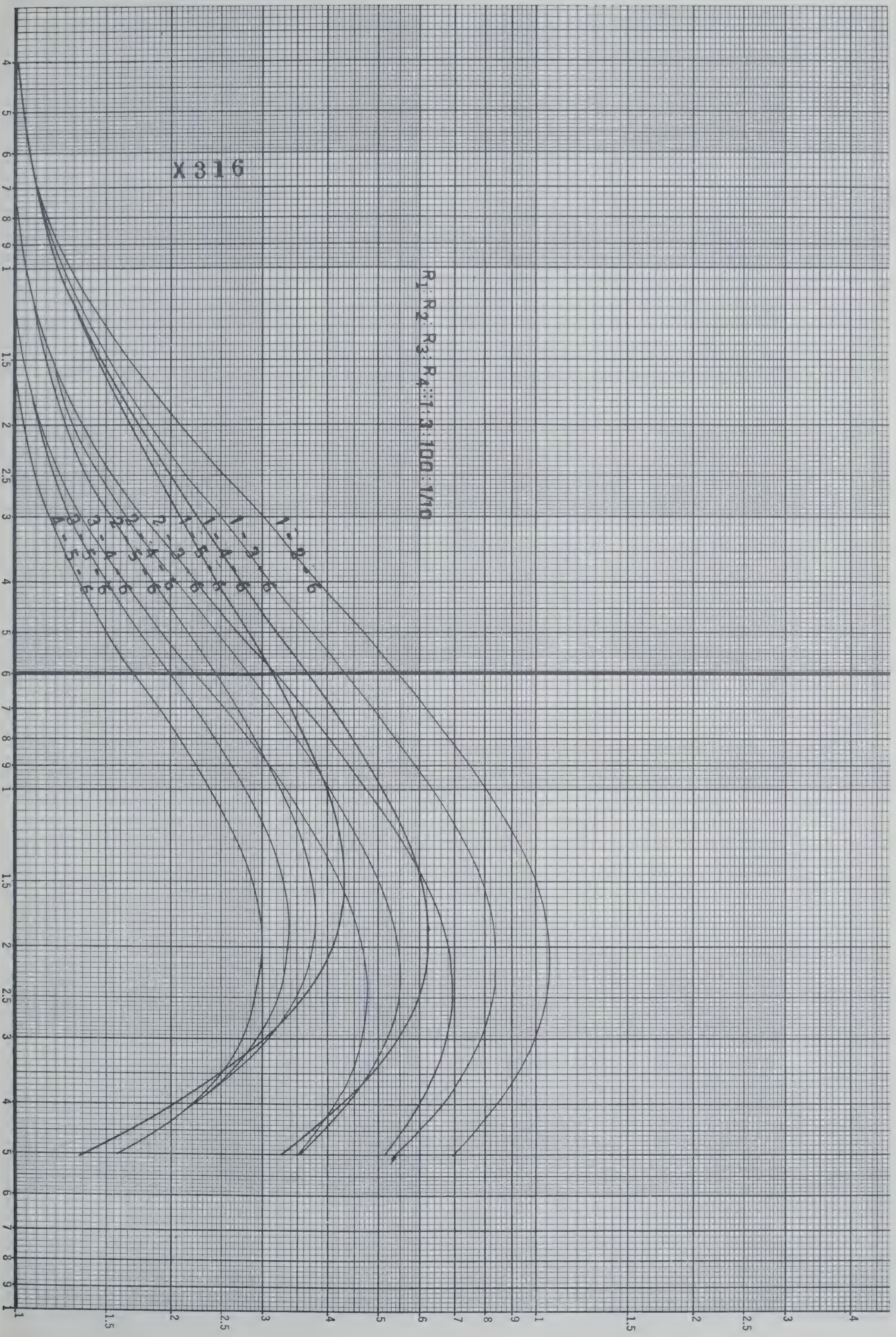
1-3-6
1-4-6
1-5-6

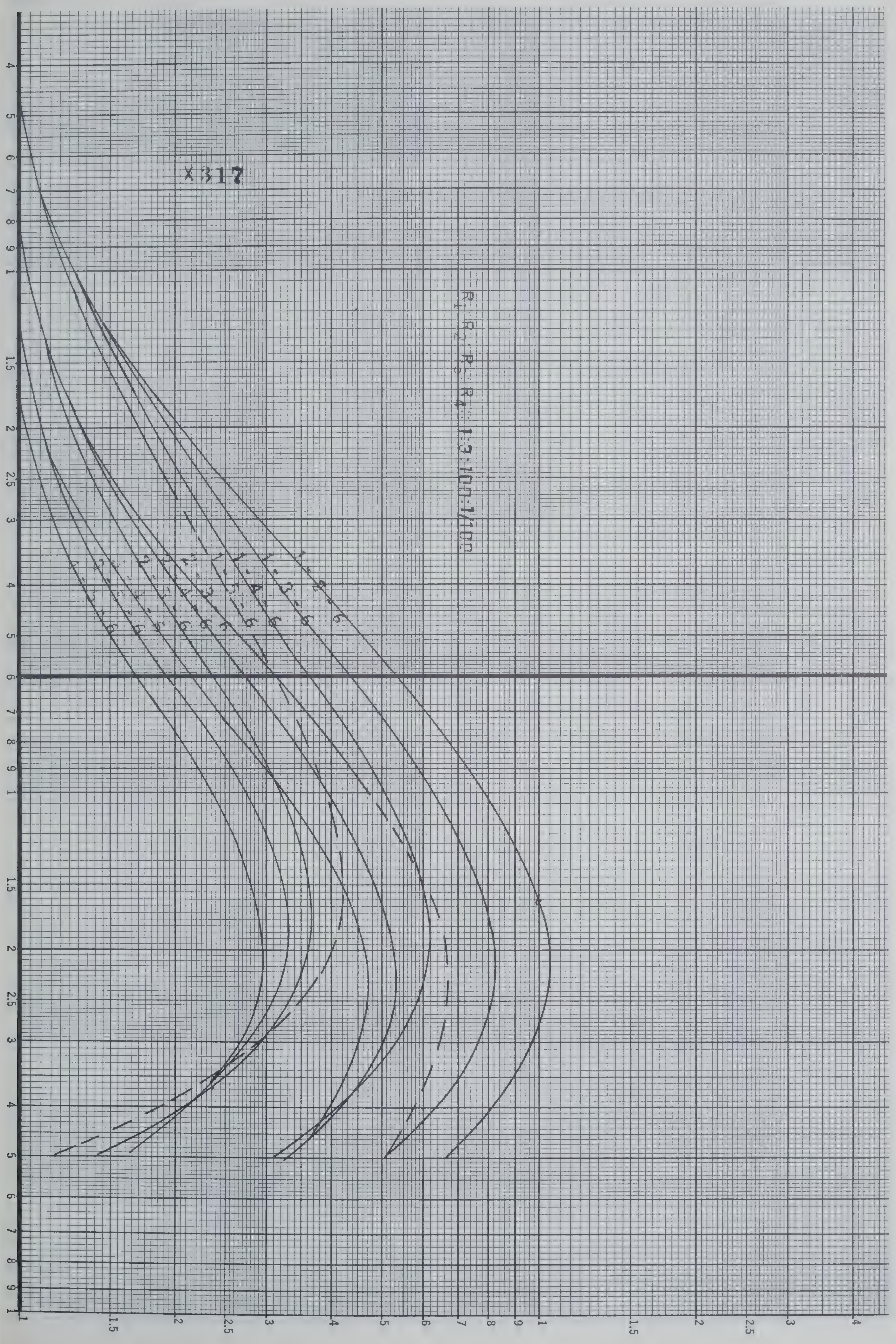

X276
R1 R2 R3 R4 : 1:10:1/100:1/10
1-2-6

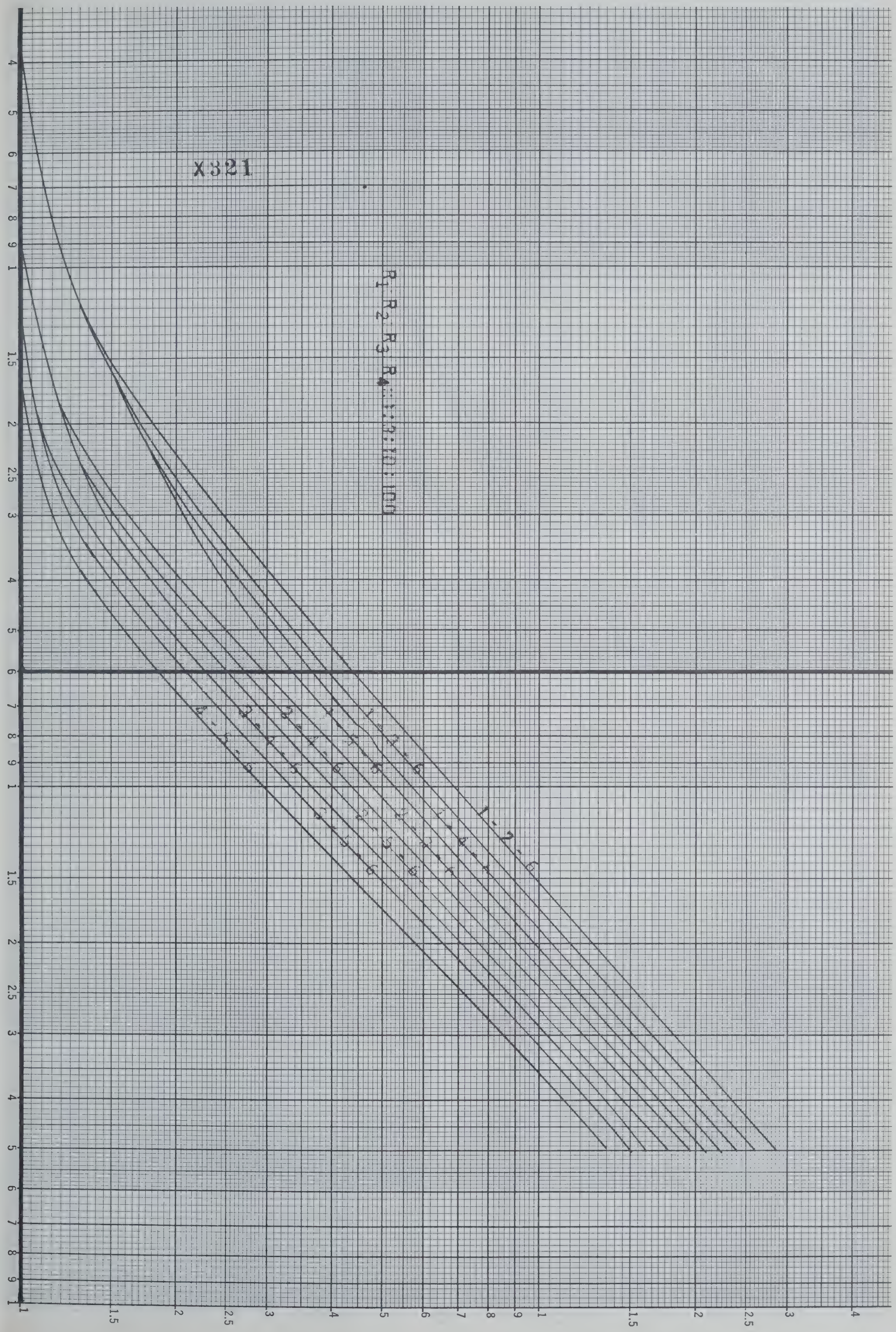

X312

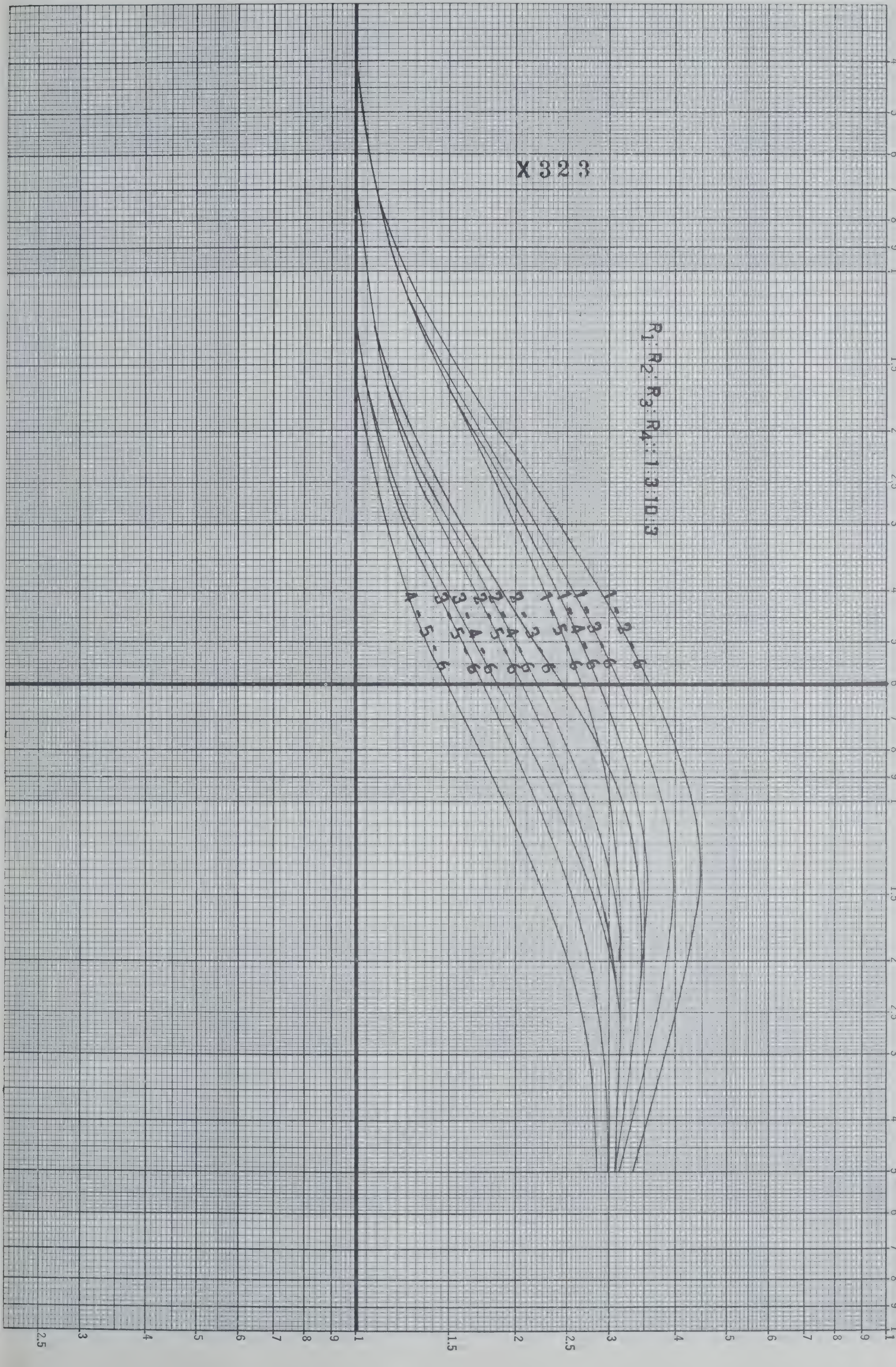

X313
R1:R2:R3:R4::1:3:100:3
1-2-6

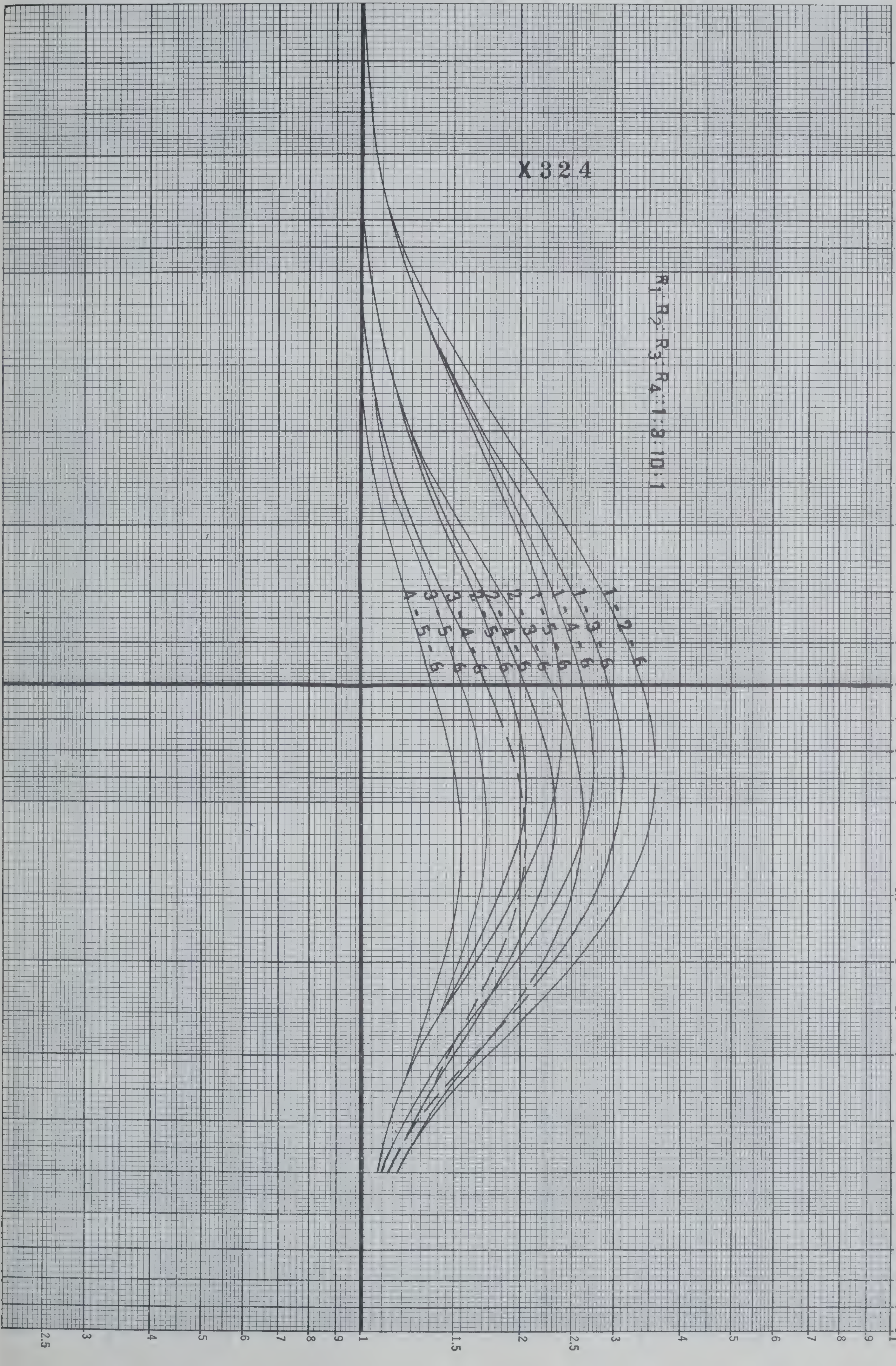

X314
$R_1:R_2:R_3:R_4::1:3:100:1$
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

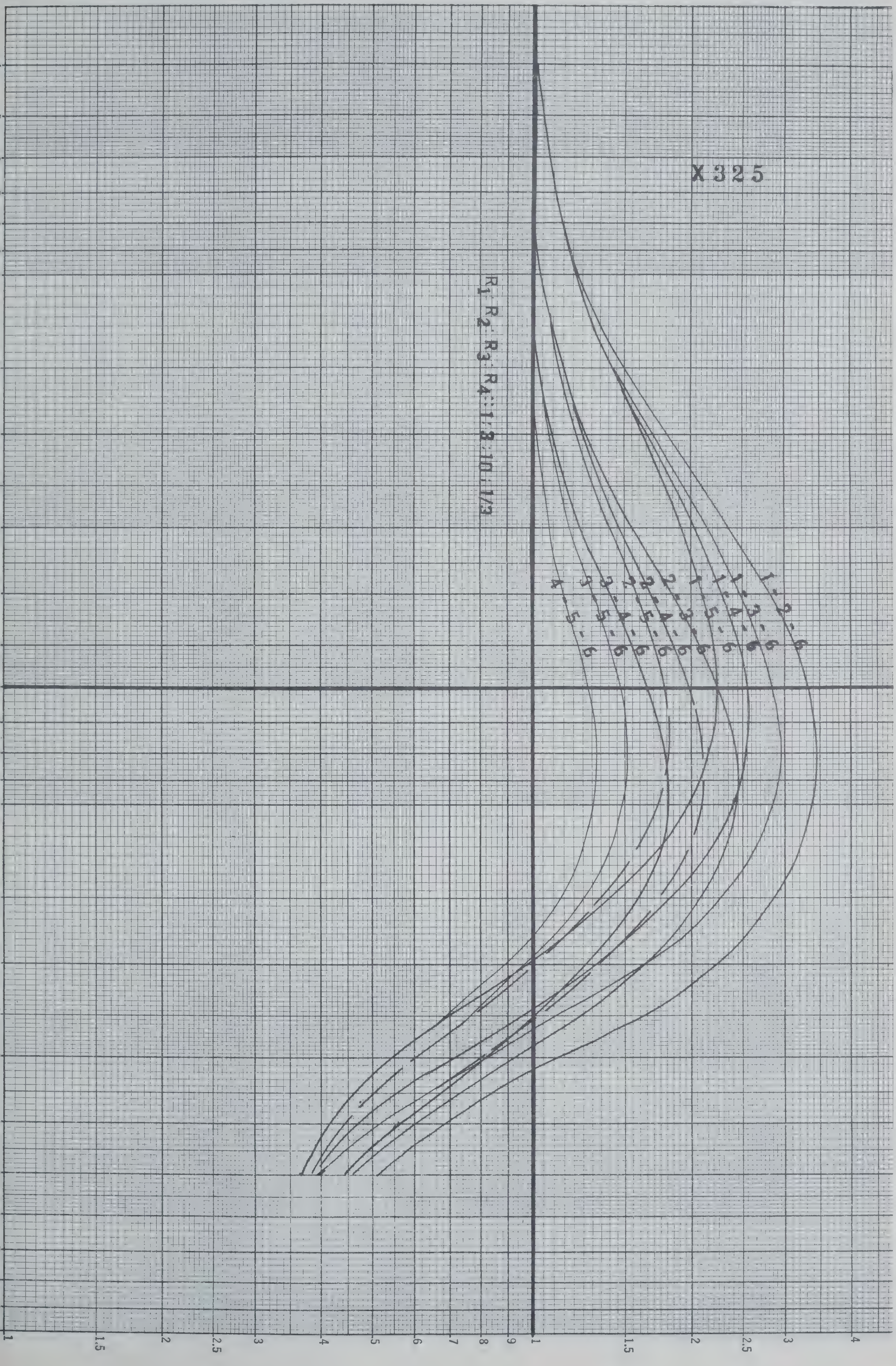

X 3 1 6
R1:R2:R3:R4::1:3:100:1/10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

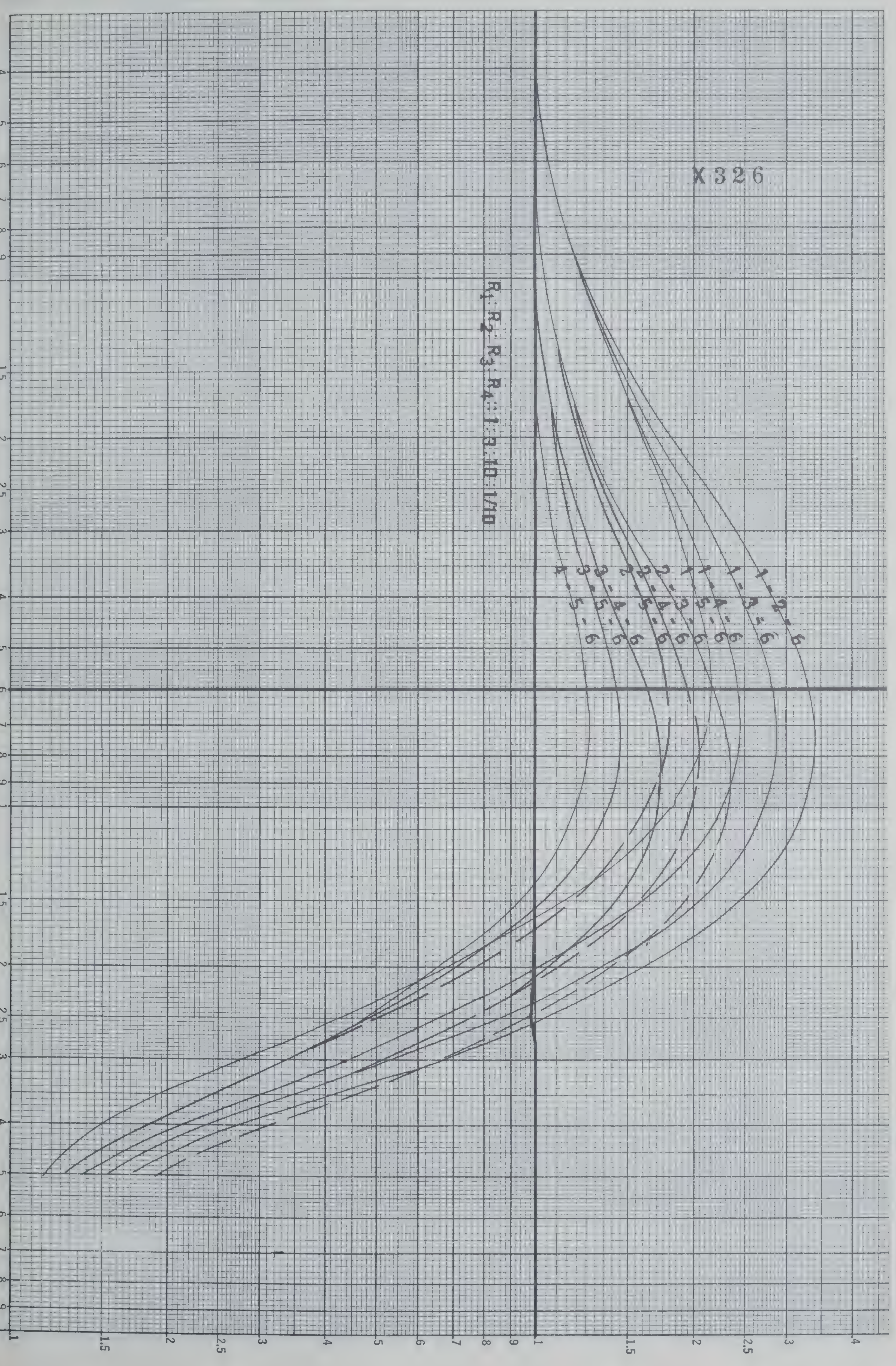

X317
R1:R2:R3:R4: 1:3:100:1/100


X321
R1 R2 R3 R4 :: 1:2:10:100
1-2-6
4-5-6


X 323
R1: R2: R3: R4 :: 1:3:10:3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6


X 324
R1:R2:R3:R4::1:8:10:1
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6


X 325
R1:R2:R3:R4::1:3:10:1/3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6


X 326
R1:R2:R3:R4::1:3:10:1/10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

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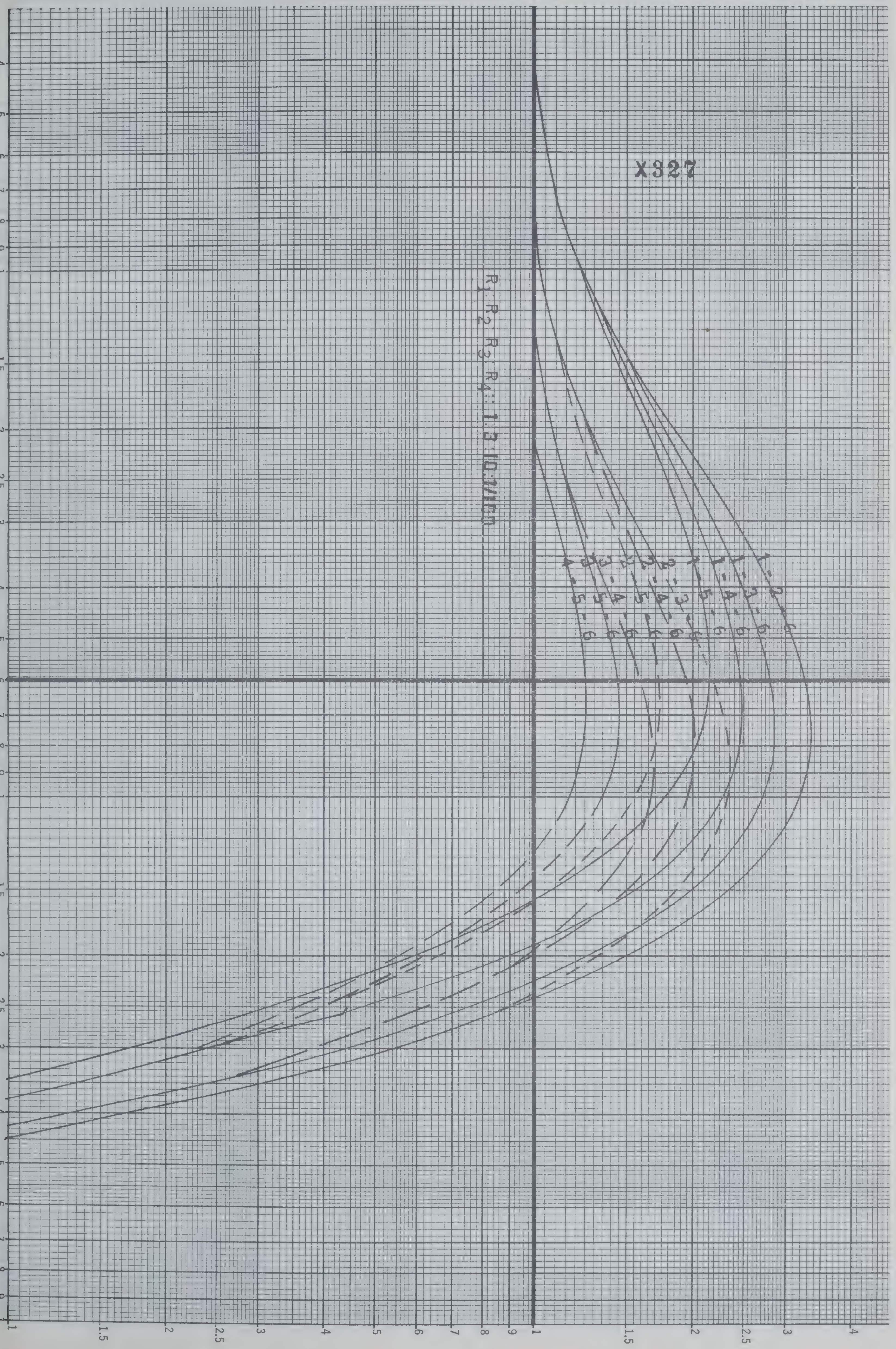
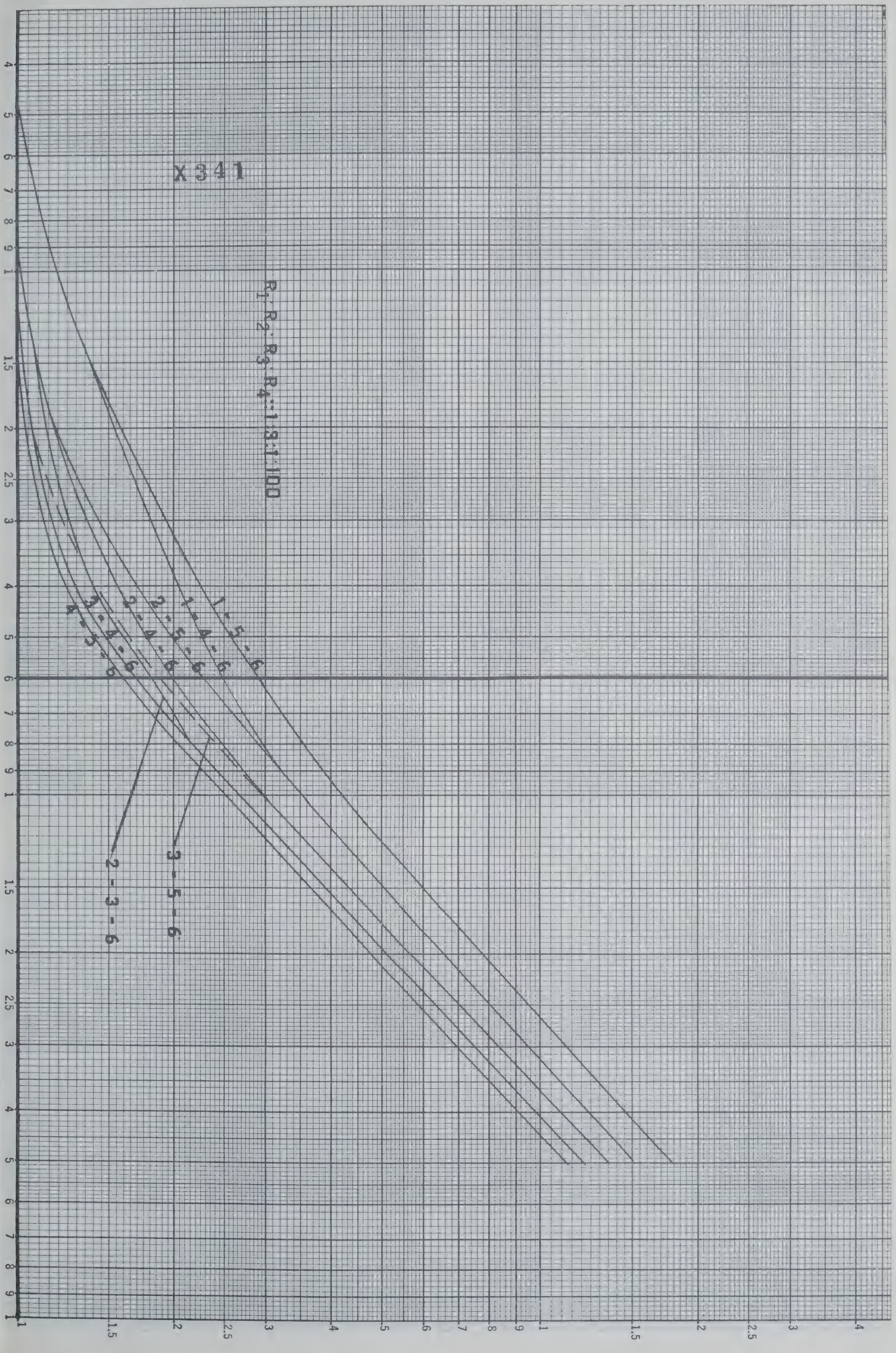
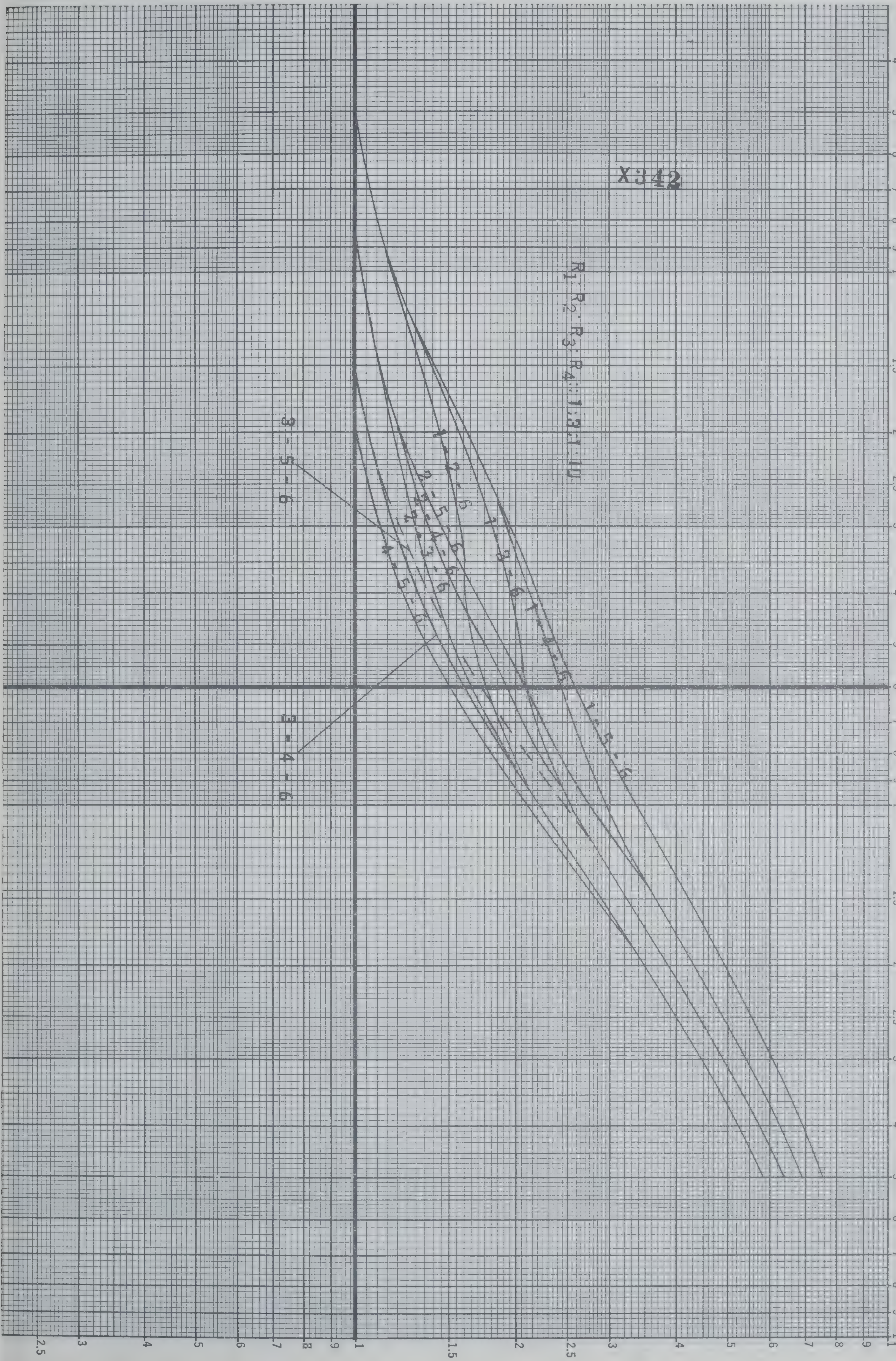
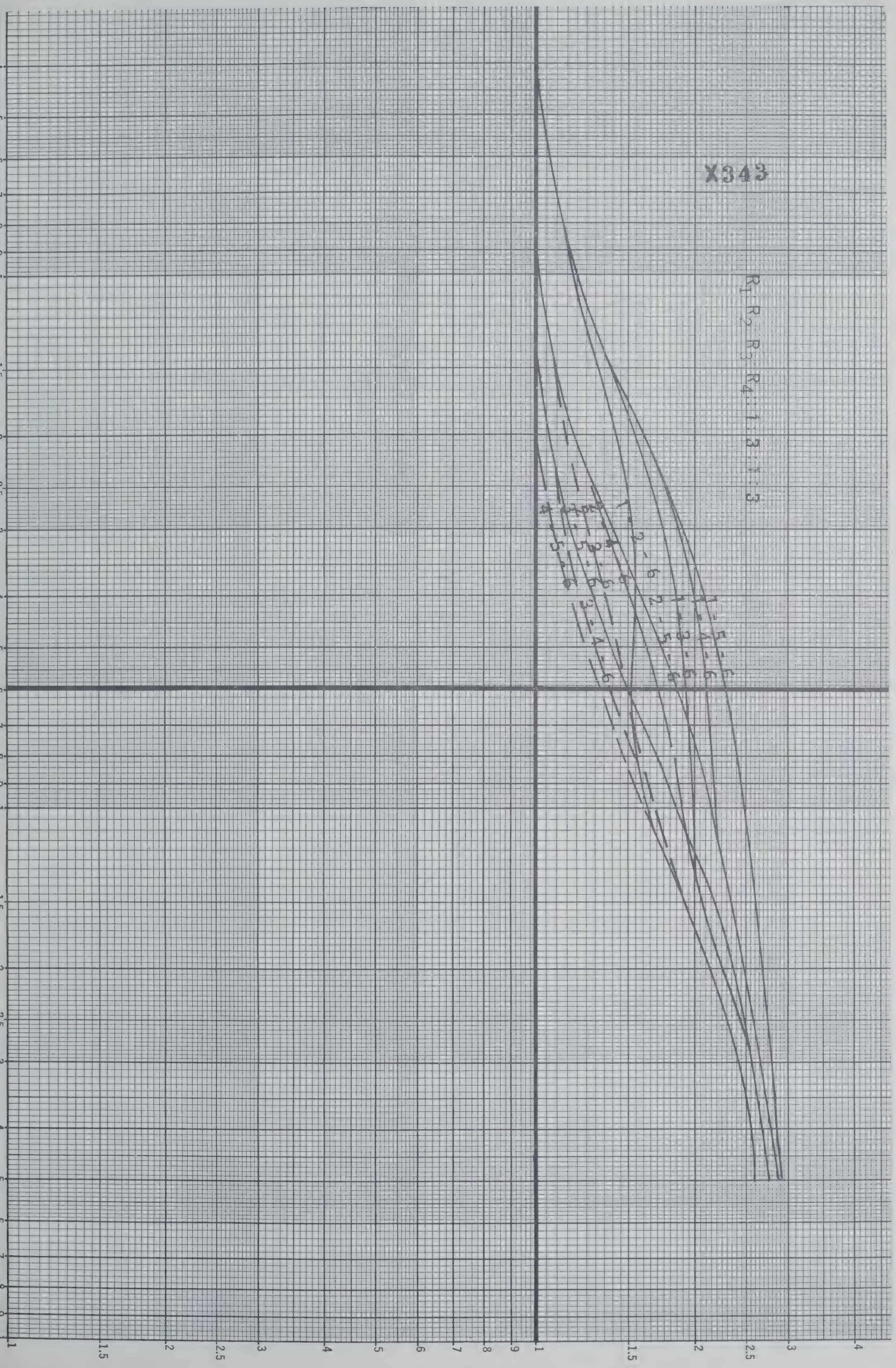
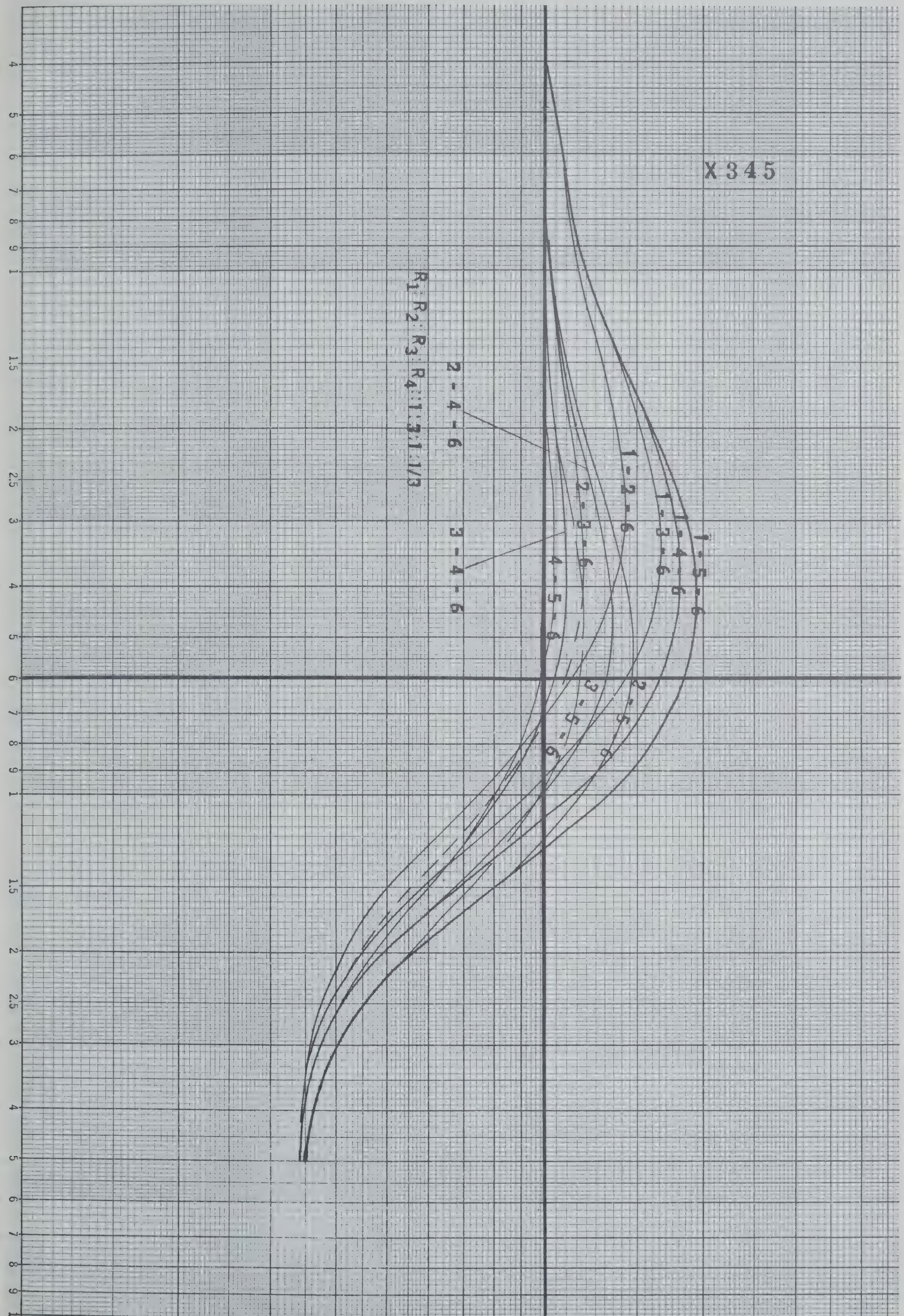



X 341
R1:R2:R3:R4::1:3:1:100
1-5-6
1-4-6
2-5-6
2-4-6
3-4-6
4-5-6
2-3-6
3-5-6


X342
R1: R2: R3: R4 :: 1:3:1:10
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6


X343
R1 R2 R3 R4 : 1 : 3 : 1 : 3
1-5-6
1-4-6
1-3-6
2-5-6
1-2-6
3-4-6
4-5-6


X 345
R1:R2:R3:R4::1:3:1:1/3
2-4-6
3-4-6
1-2-6
1-3-6
1-4-6
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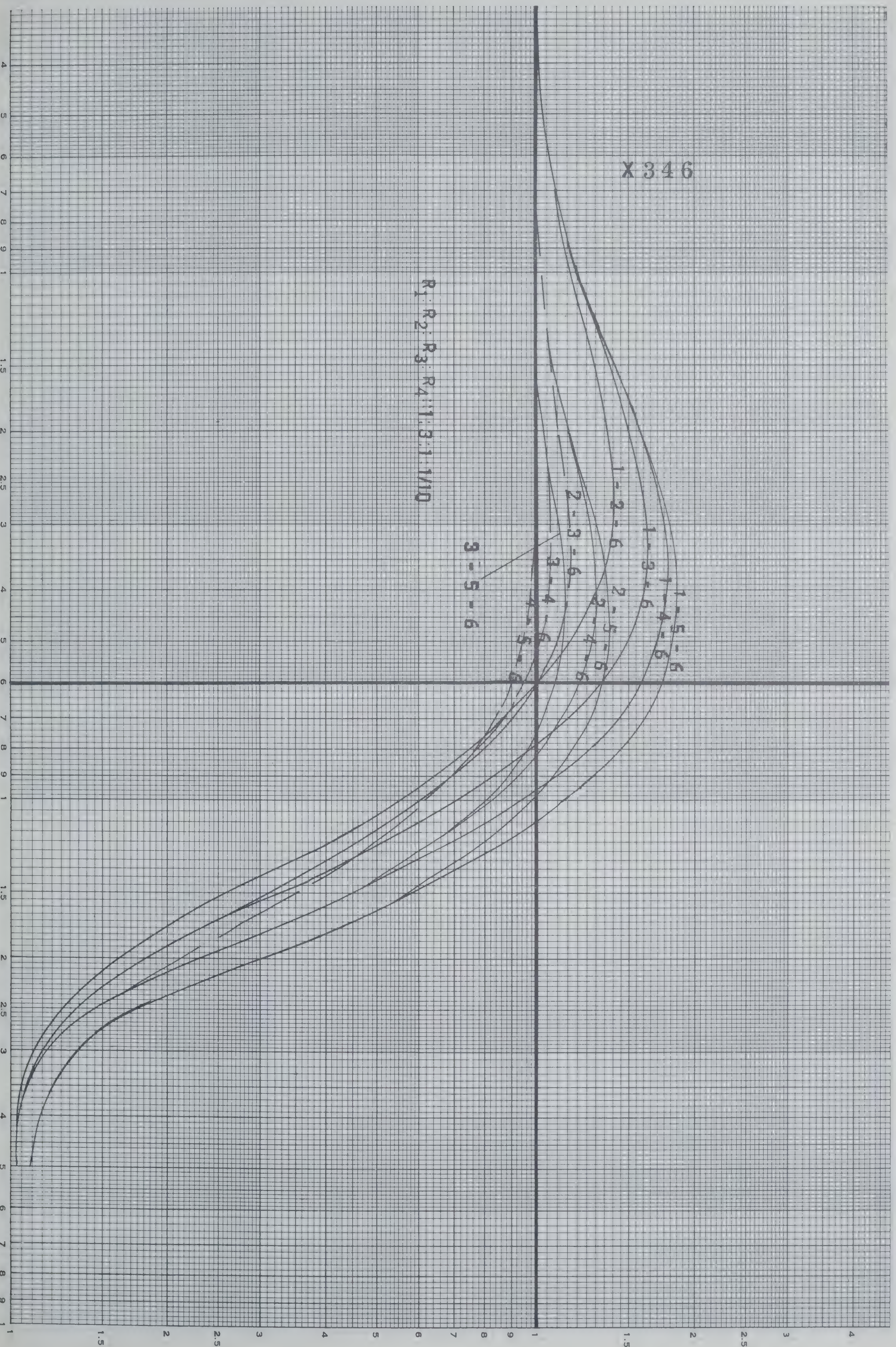
4-5-6
2-5-6
3-5-6


X 346
R1:R2:R3:R4::1:3:1:1/10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
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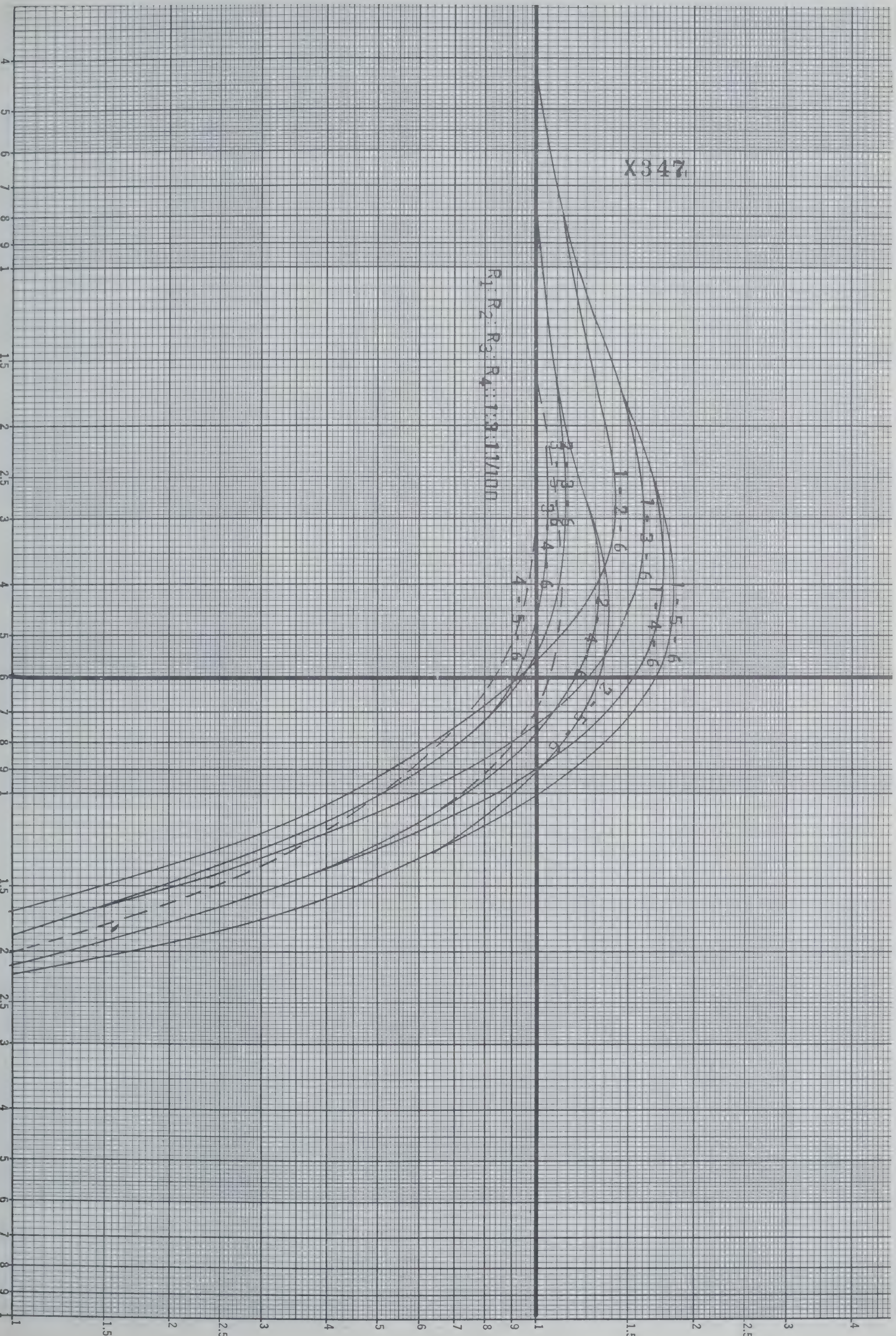
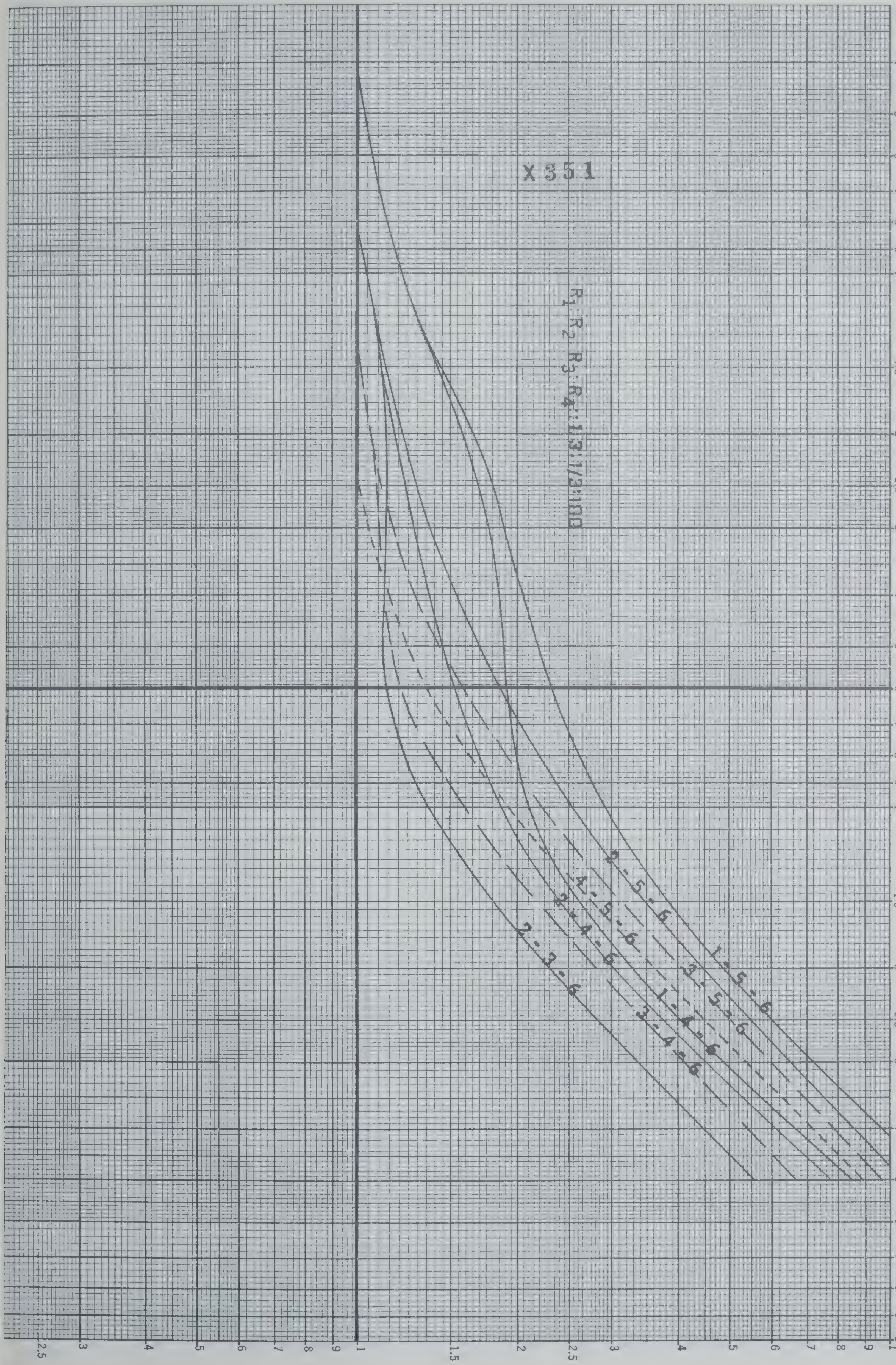
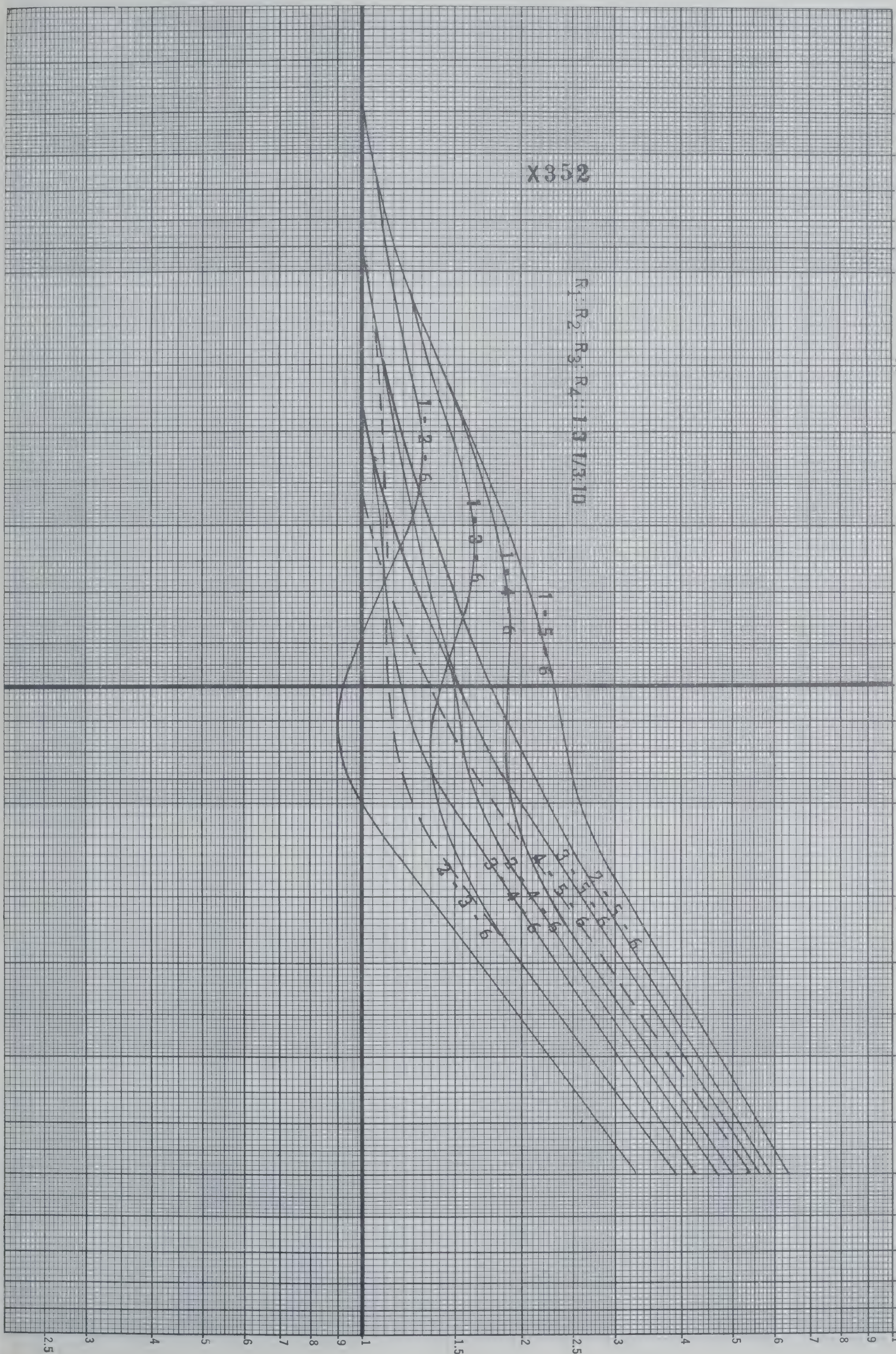
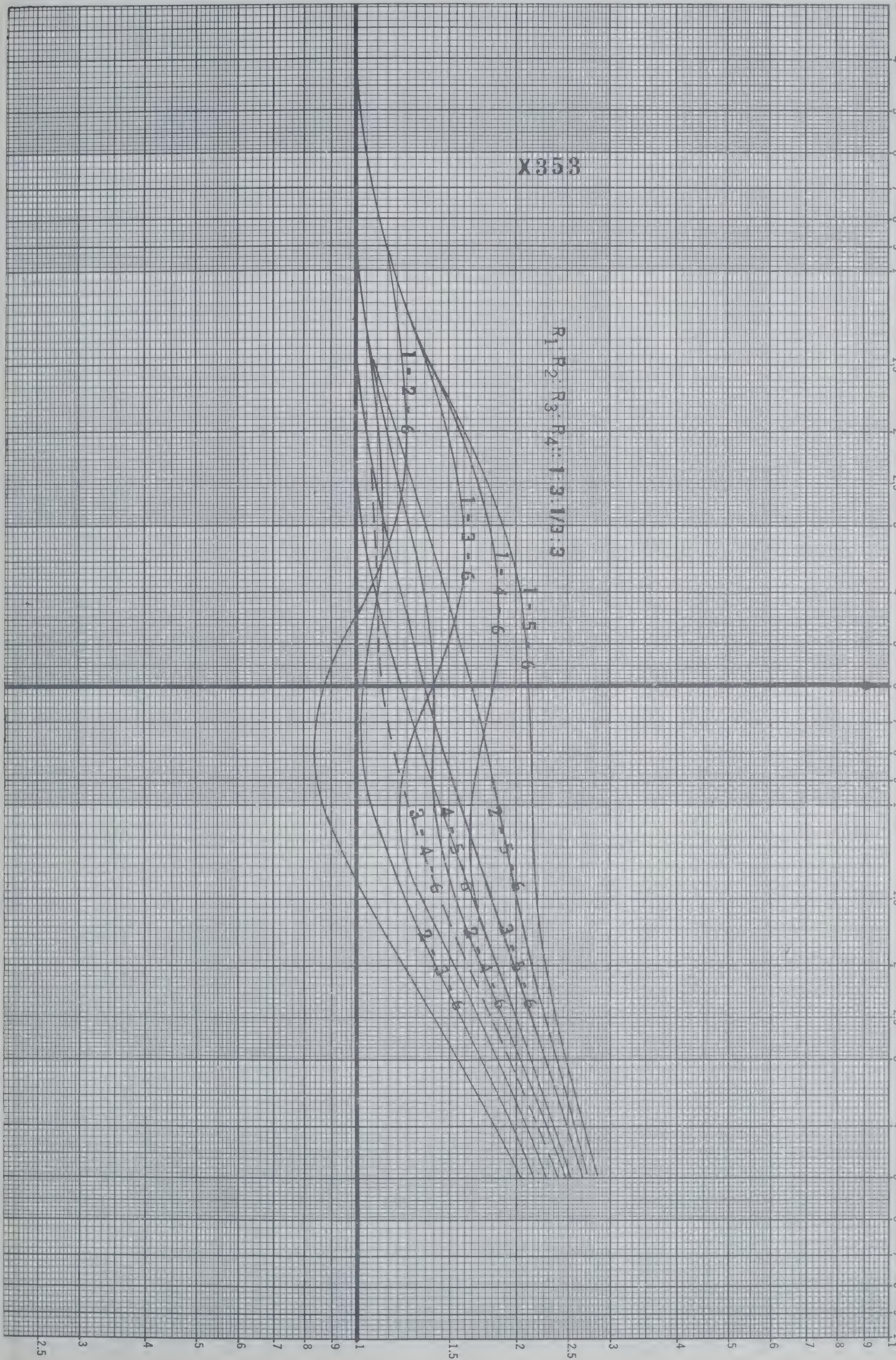
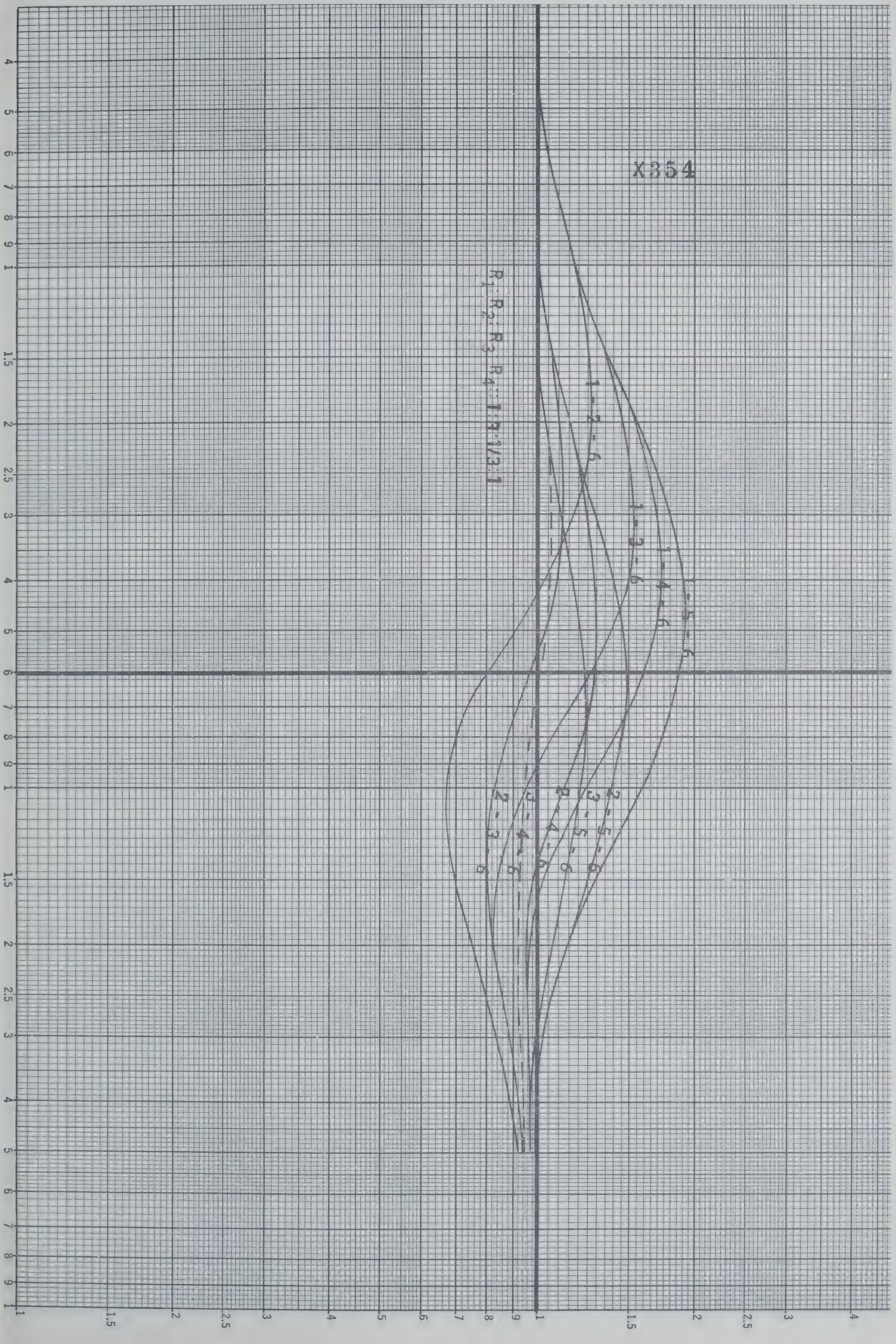
3-4-6
3-5-6
4-5-6

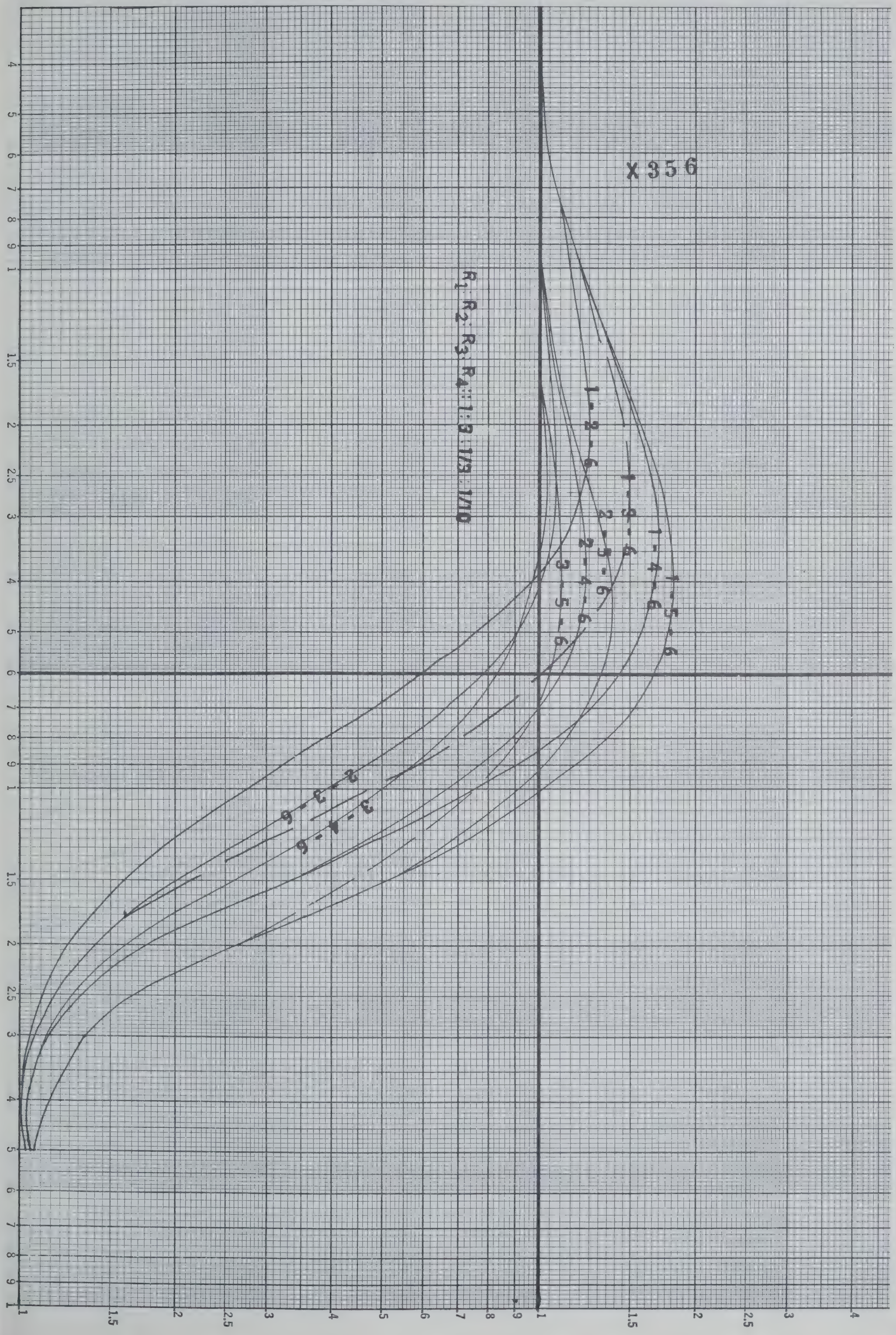

X347
R1:R2:R3:R4::1:3:1:1/100
1-2-6
1-3-6
1-4-6
1-5-6
2-4-6
3-4-6
4-5-6

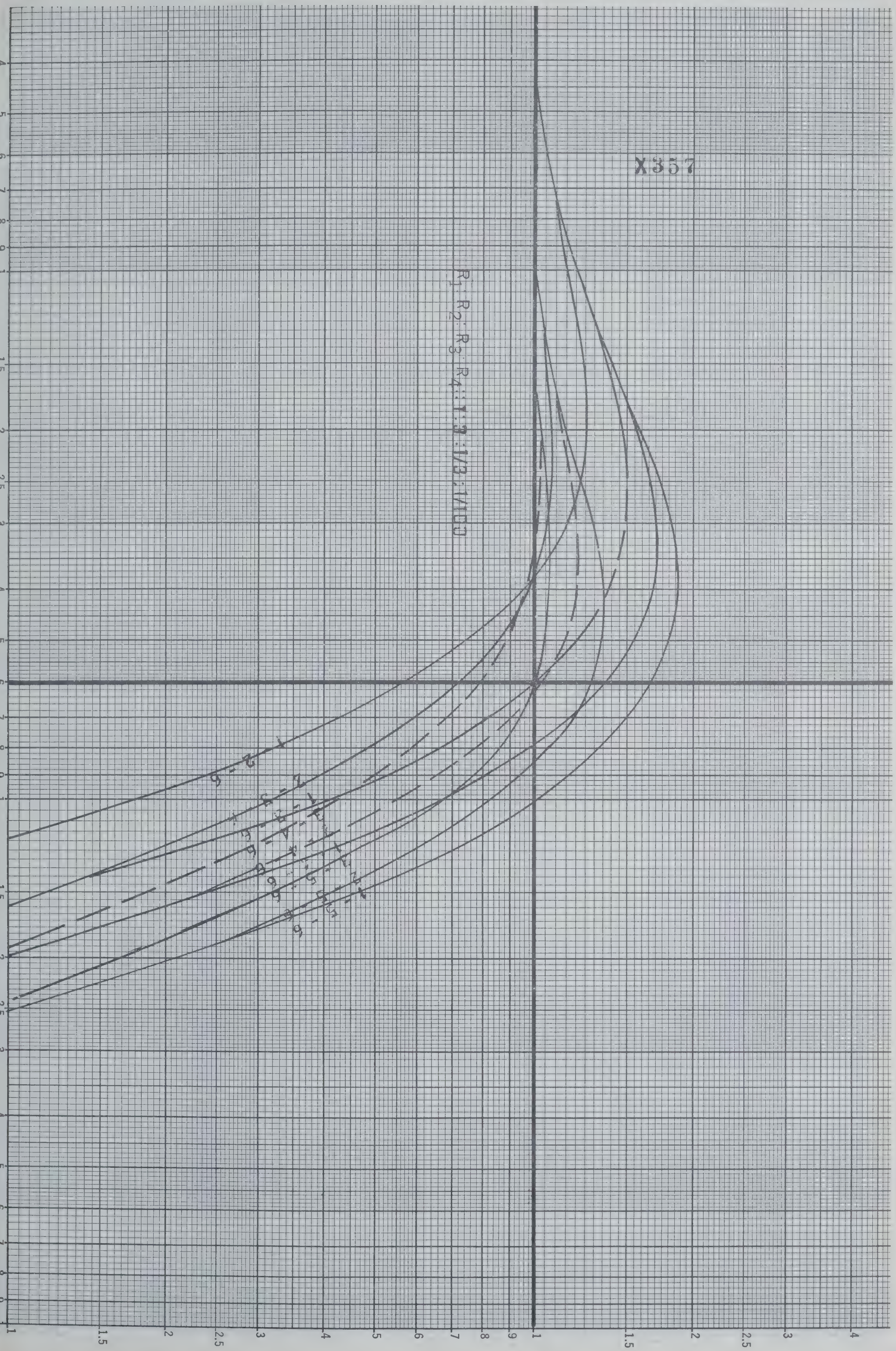

X 351
R1:R2:R3:R4::1:3:1/3:100
1-5-6
2-5-6
3-5-6
4-5-6
1-4-6
2-4-6
3-4-6
2-3-6

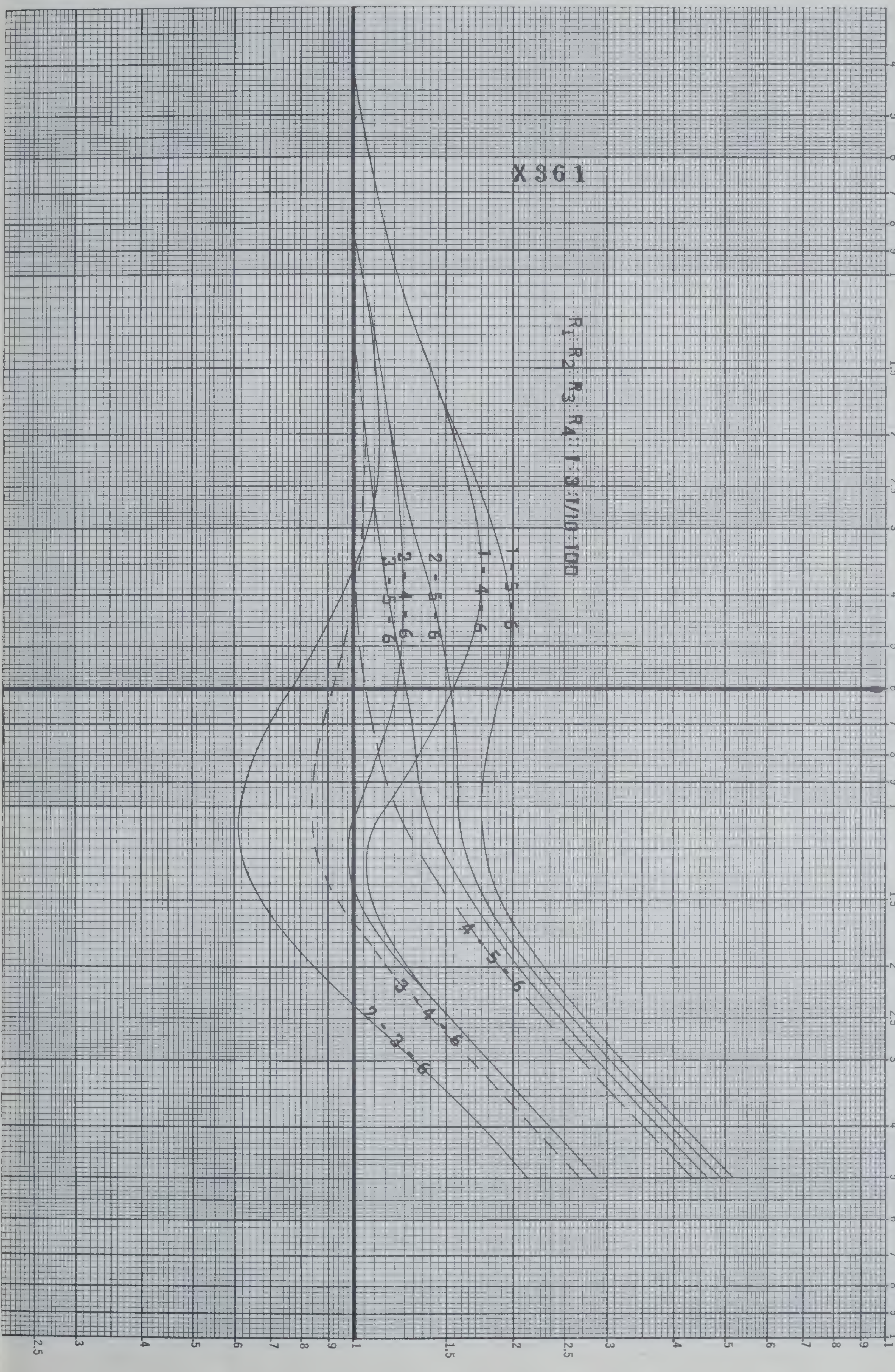

X352
R1:R2:R3:R4::1:3:1/3:10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
3-4-6
2-4-6
4-5-6
3-5-6
2-5-6

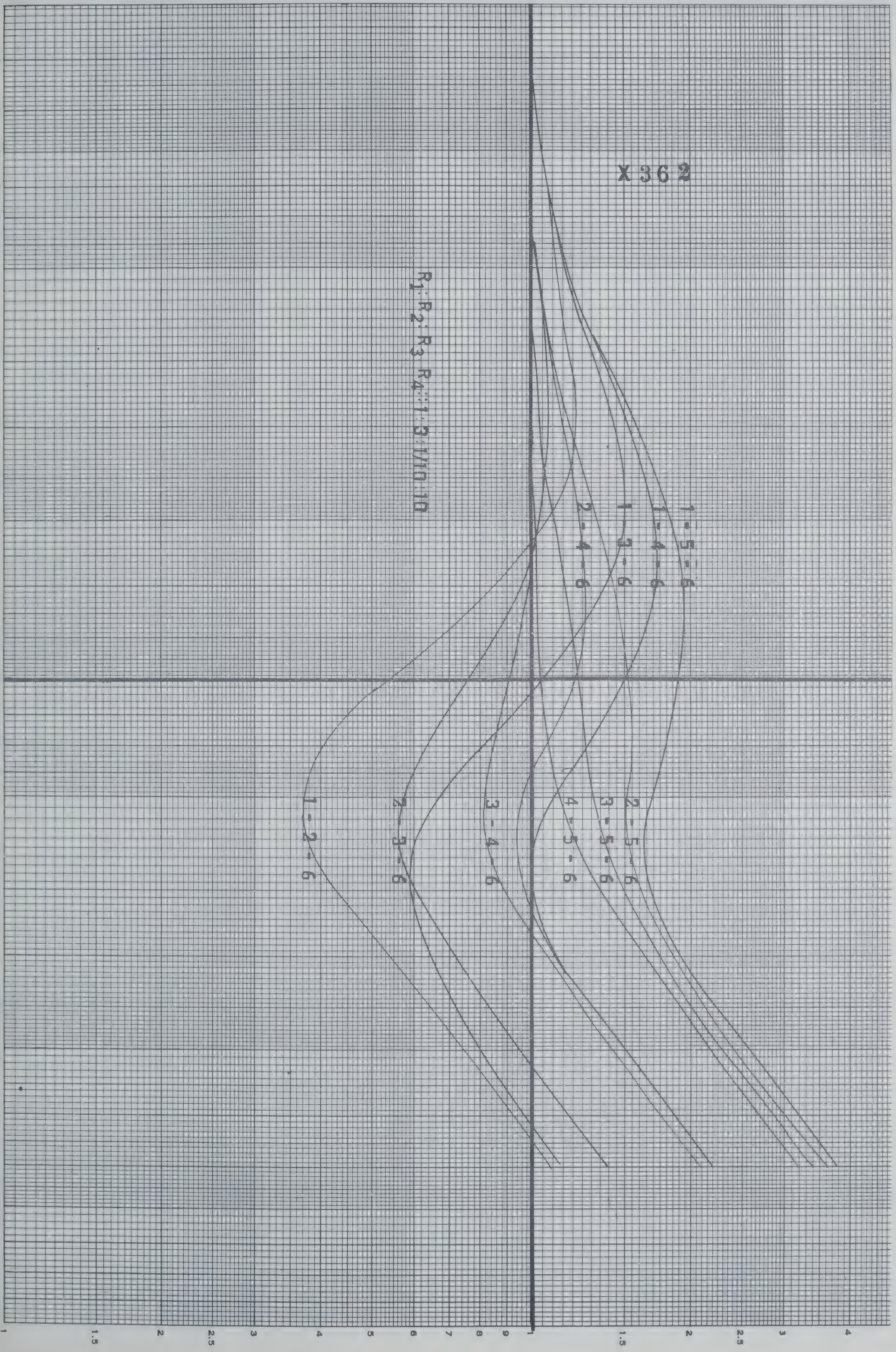

X353
R1:R2:R3:R4::1:3:1/3:3
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
4-5-6
3-4-6
3-5-6
2-4-6
2-3-6


X354
R1:R2:R3:R4::1:3:1/3:1
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
3-4-6
2-4-6
3-5-6
2-5-6


X 356
R1:R2:R3:R4::1:3:1/3:1/10
1-2-6
1-3-6
2-3-6
2-4-6
3-5-6
1-4-6
1-5-6
3-3-6
3-4-6


X357
R1:R2:R3:R4::1:3:1/3:1/100


X 361
R1:R2:R3:R4::1:3:1/10:100
1-5-6
1-4-6
2-5-6
2-4-6
3-5-6
4-5-6
3-4-6
2-3-6


X 362
R1:R2:R3 R4::1:3:1/10:10
1-5-6
1-4-6
1-3-6
2-4-6
2-5-6
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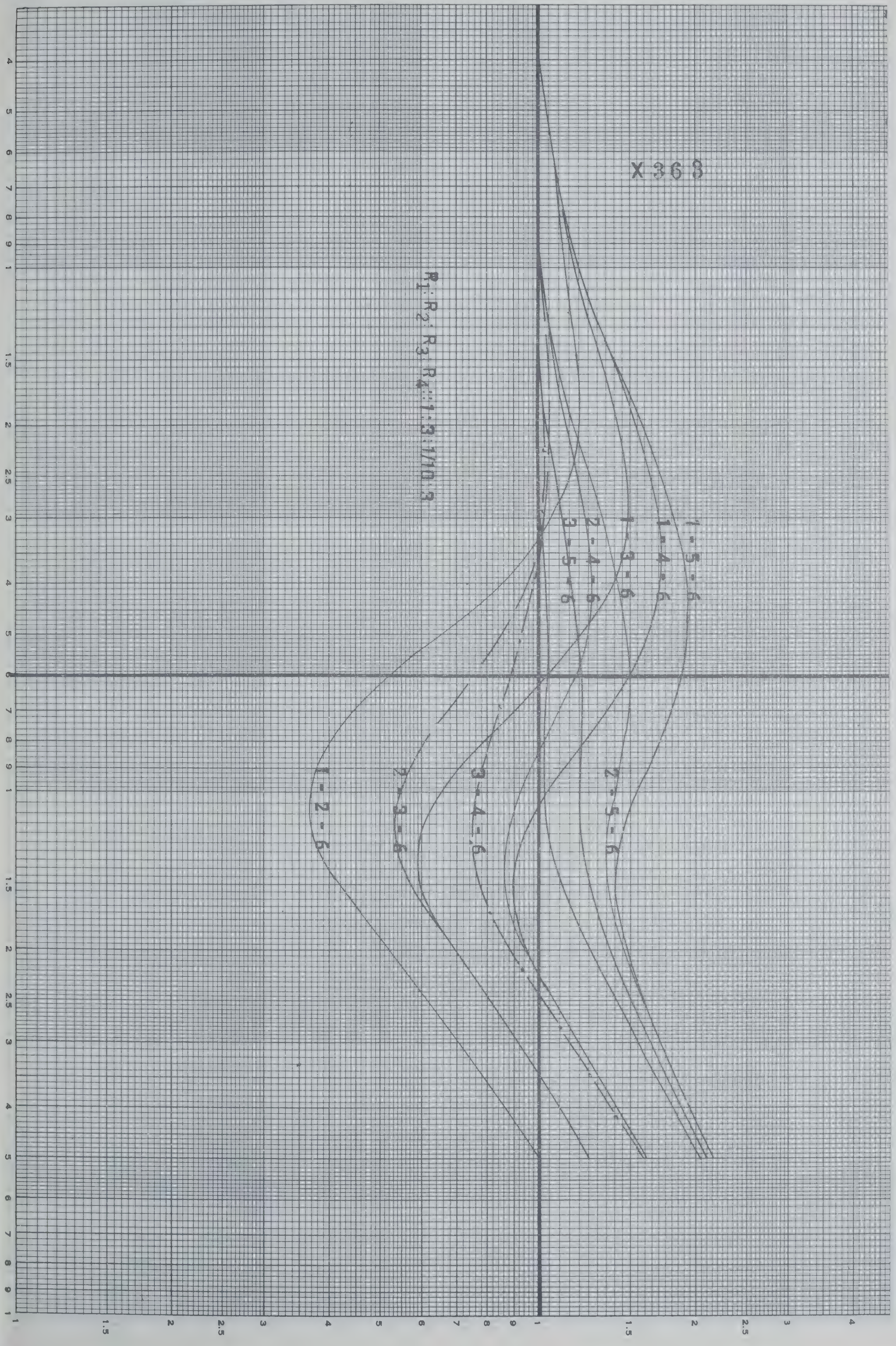
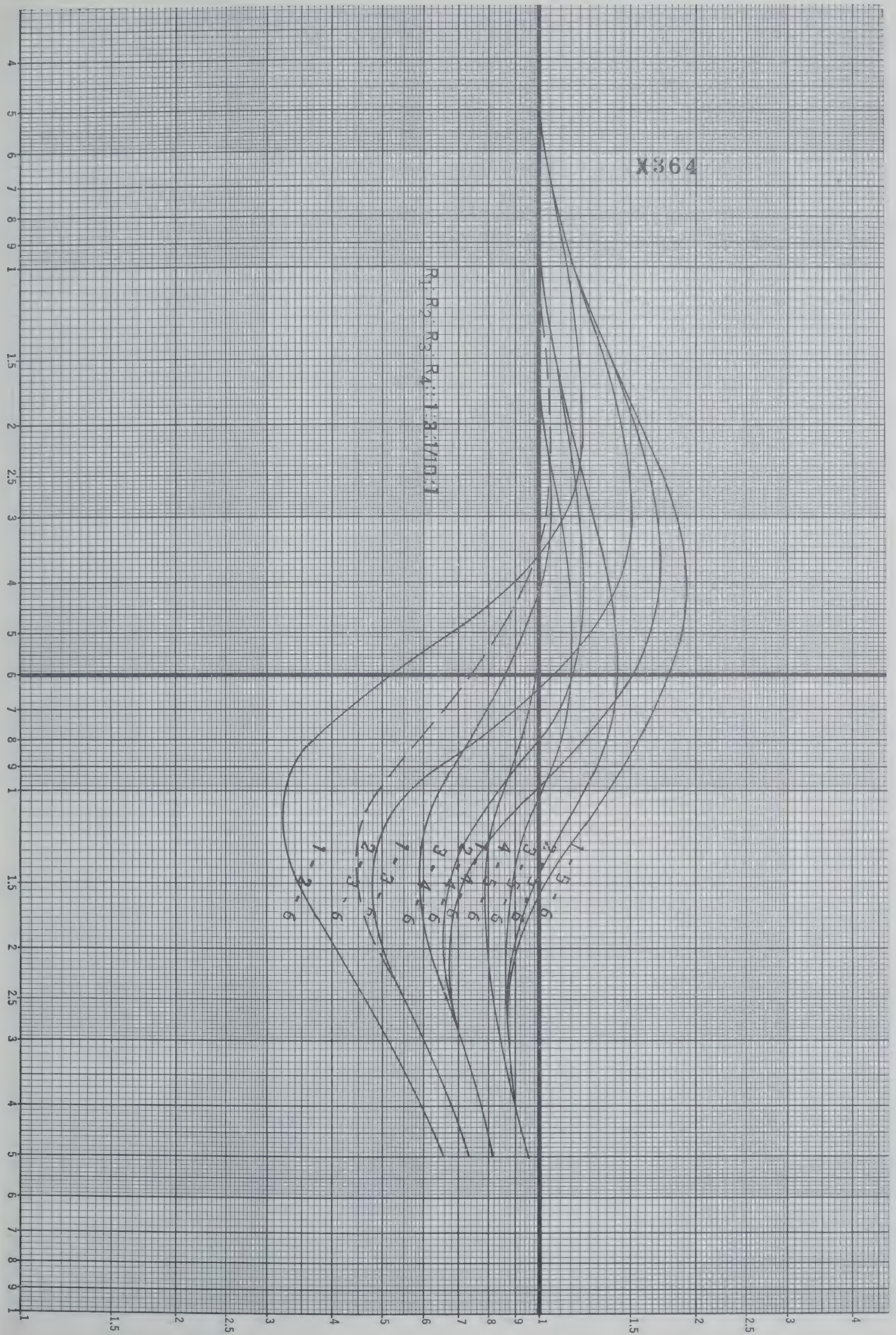
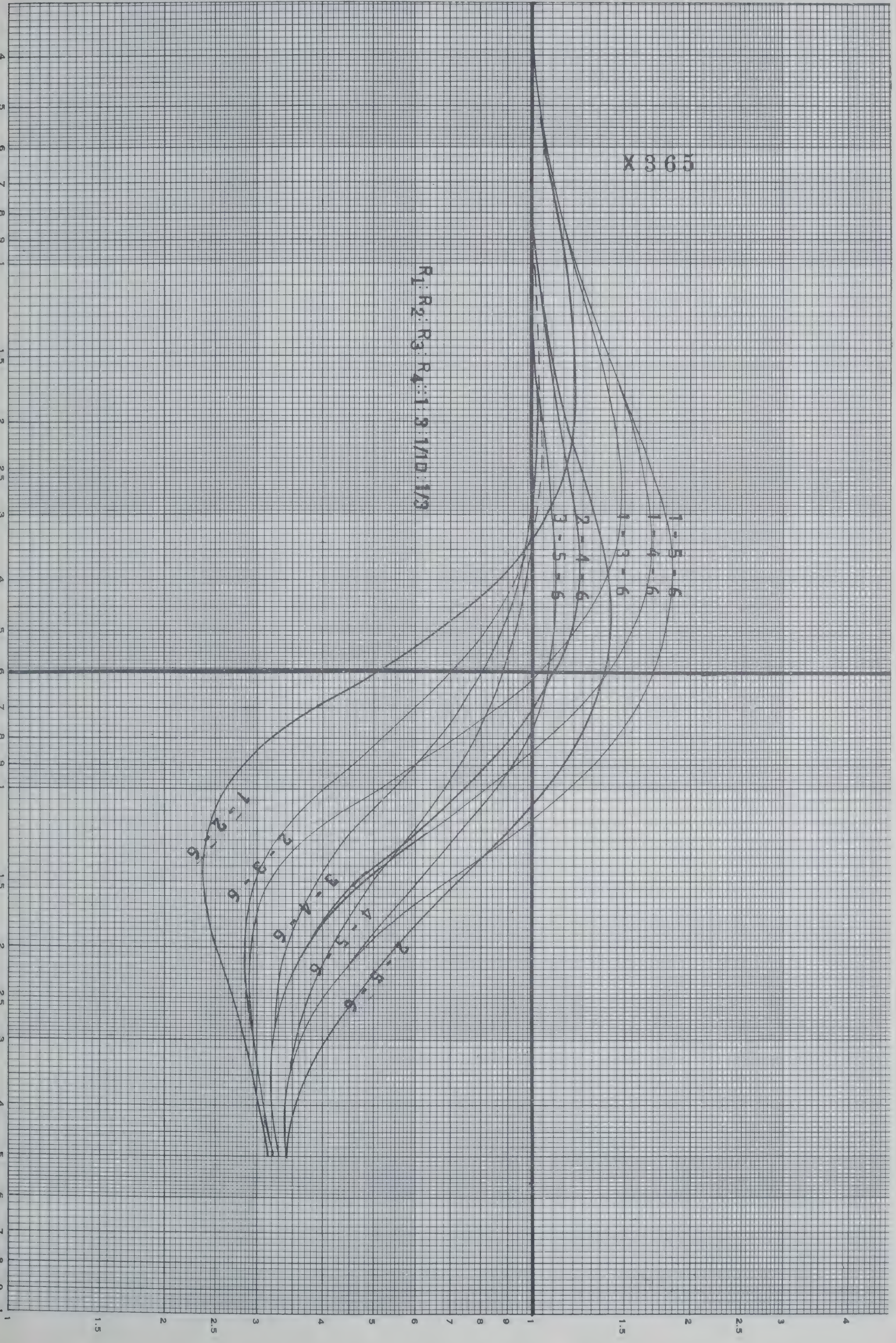
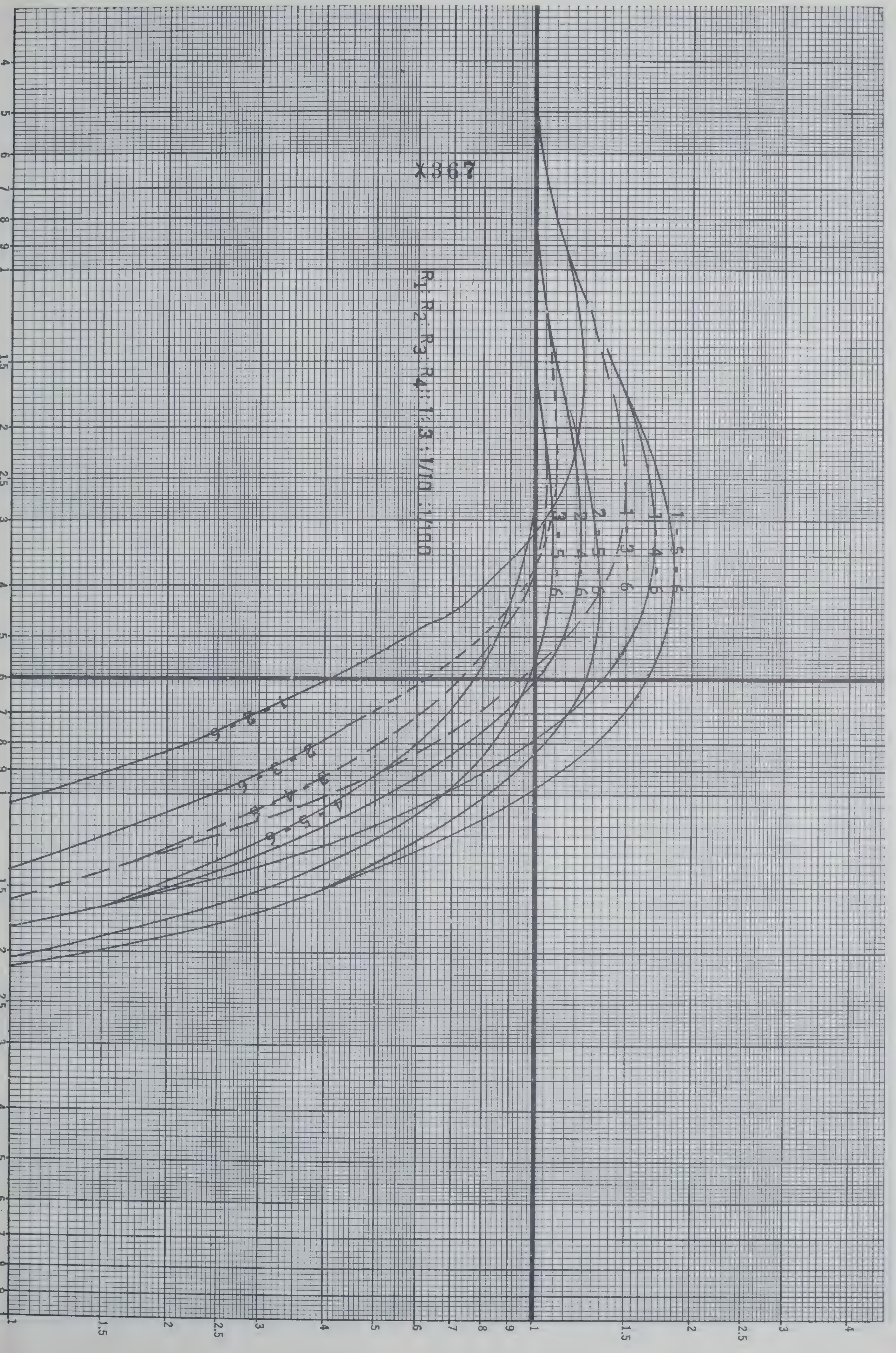
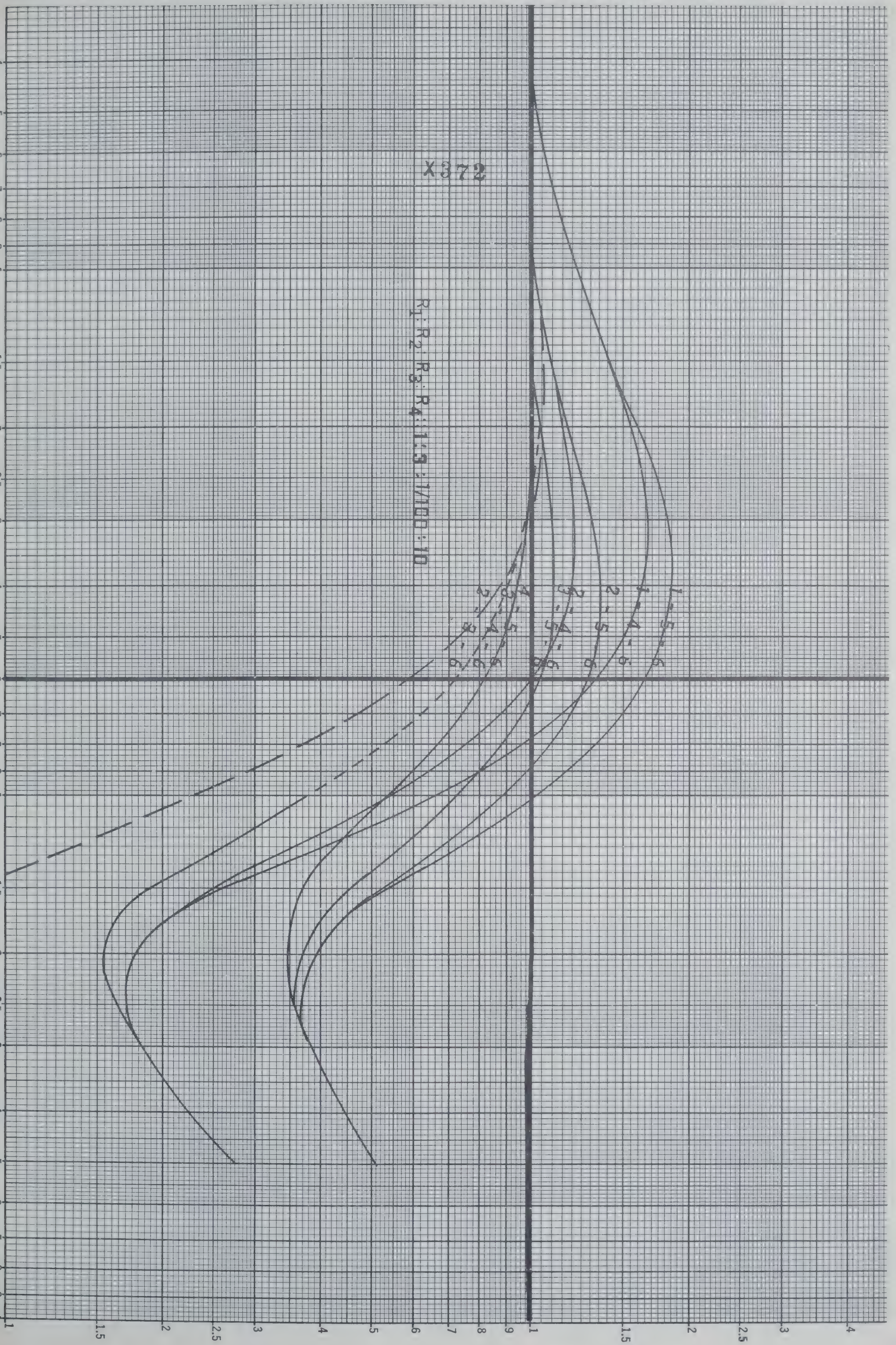
3-4-6
2-3-6
1-2-6

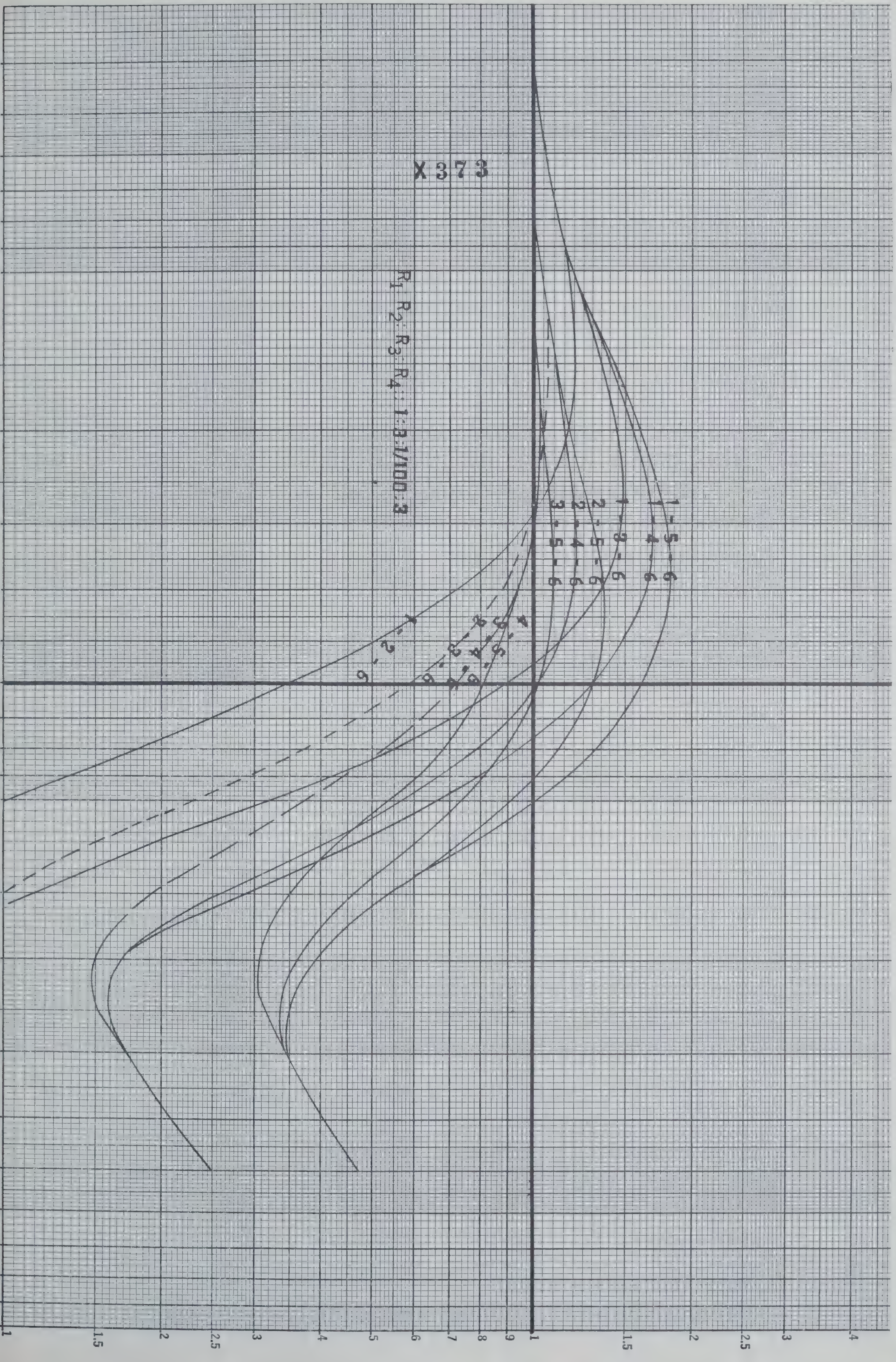

X 368
R1:R2:R3:R4::1:3:1/10:3
1-5-6
1-4-6
1-3-6
2-4-6
3-5-6
1-2-6
2-3-6
3-4-6
2-5-6

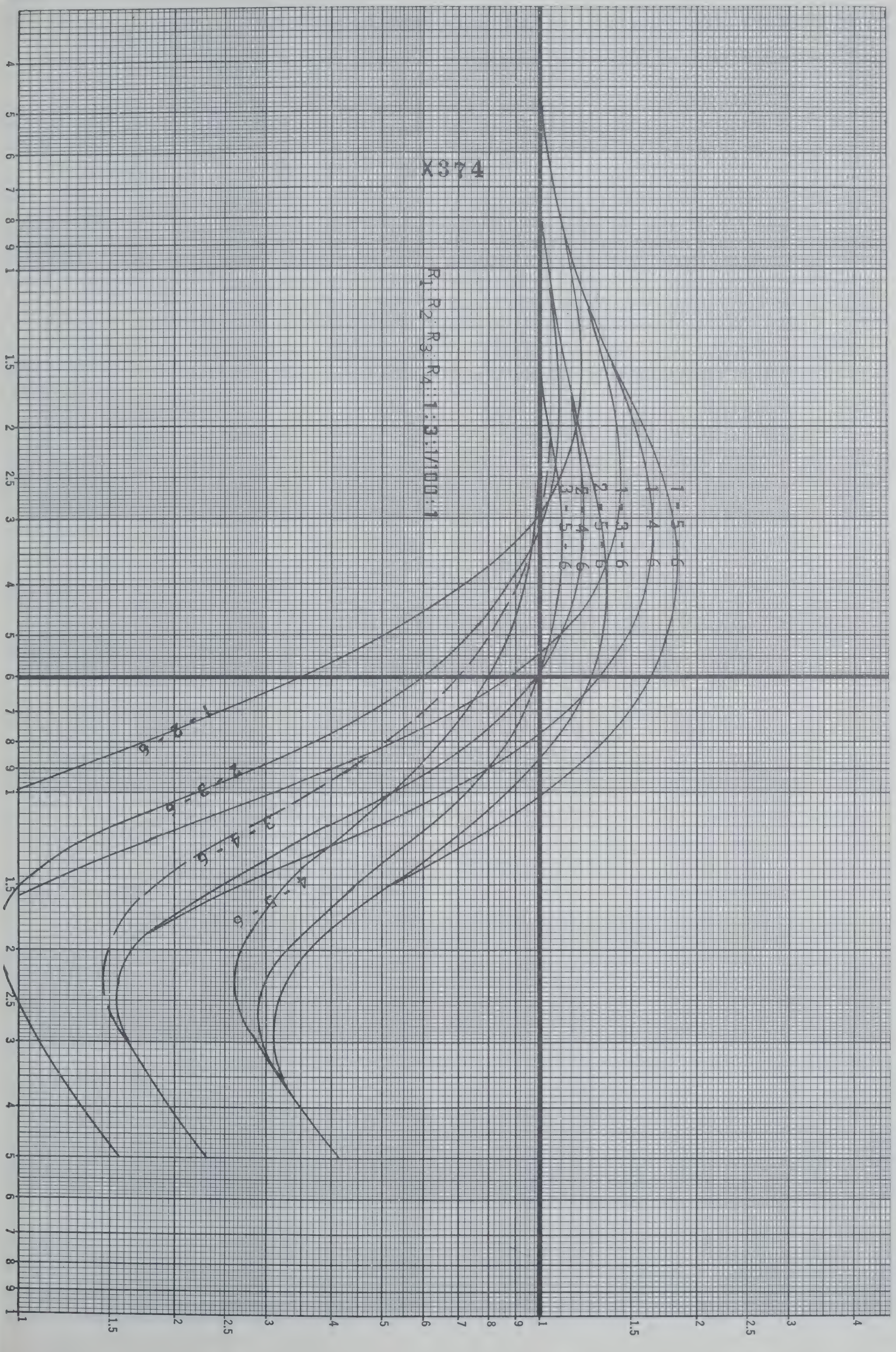

X364
R1:R2:R3:R4::1:3:1/10:1

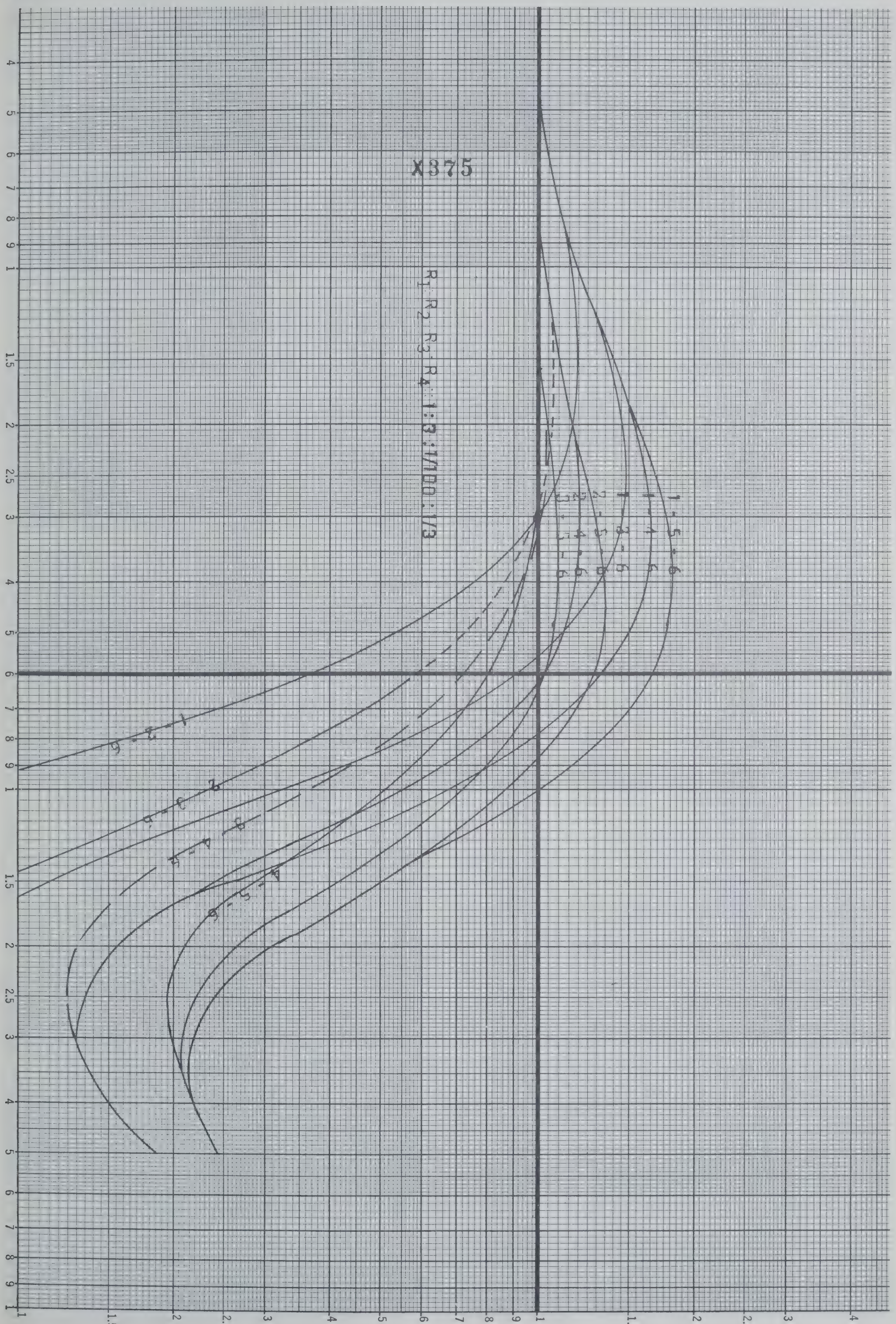

X 365
R1:R2:R3:R4::1:3:1/10:1/3
1-5-6
1-4-6
1-3-6
2-4-6
3-5-6

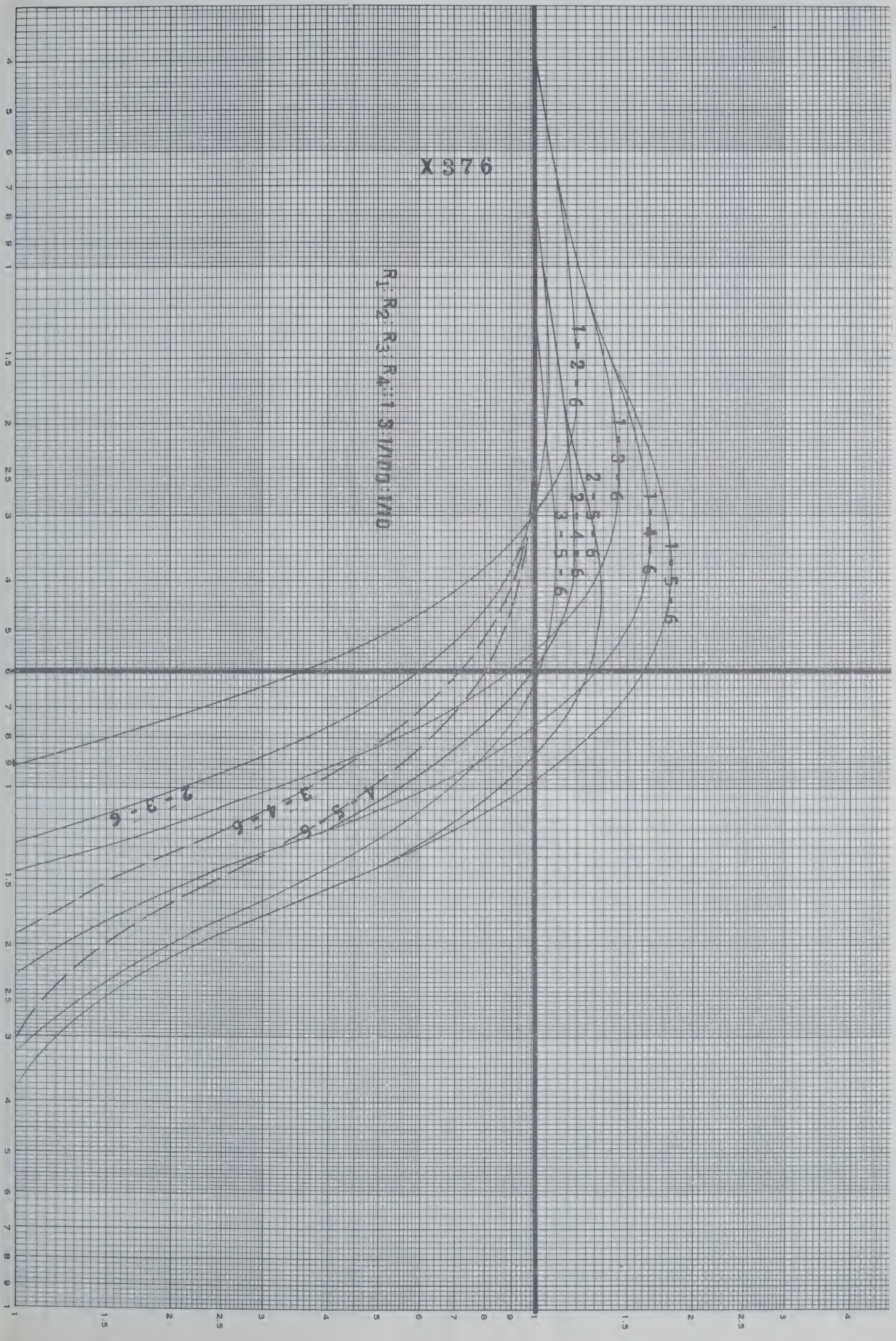

X367
R1:R2:R3:R4::1:3:1/10:1/100


X372
R1:R2:R3:R4::1:3:1/100:10


X 3 7 3
R1 R2 R3 R4 :: 1:3:1/100:3
1-5-6
1-4-6
1-3-6
2-5-6
2-4-6
3-5-6


X374
R1:R2:R3:R4::1:3:1/100:1
1-5-6
1-4-6
1-3-6
2-5-6
2-4-6
3-5-6


X375
R1:R2:R3:R4 1:3:1/100:1/3


X 376
R1:R2:R3:R4::1:3:1/100:1/10
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
2-4-6
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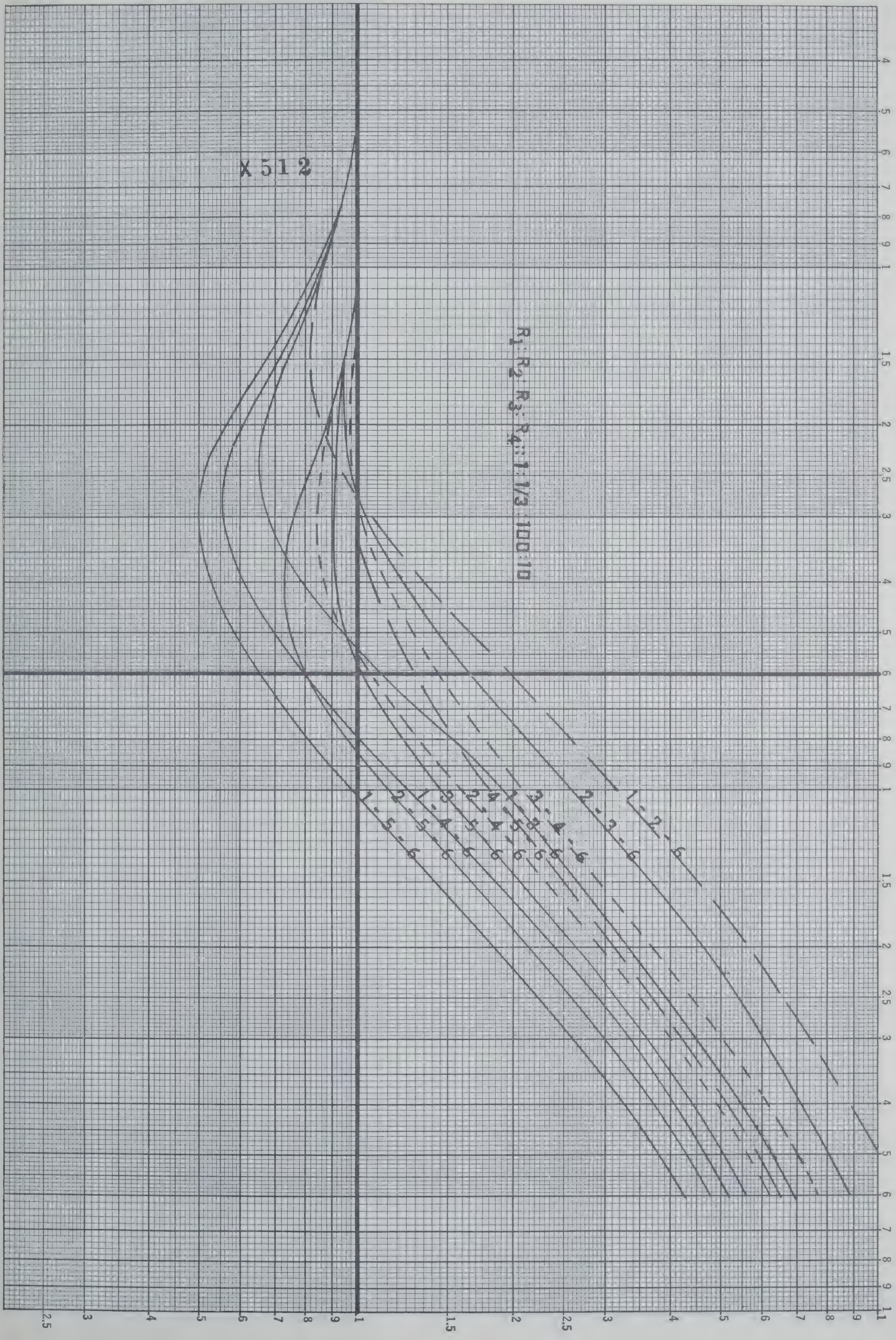
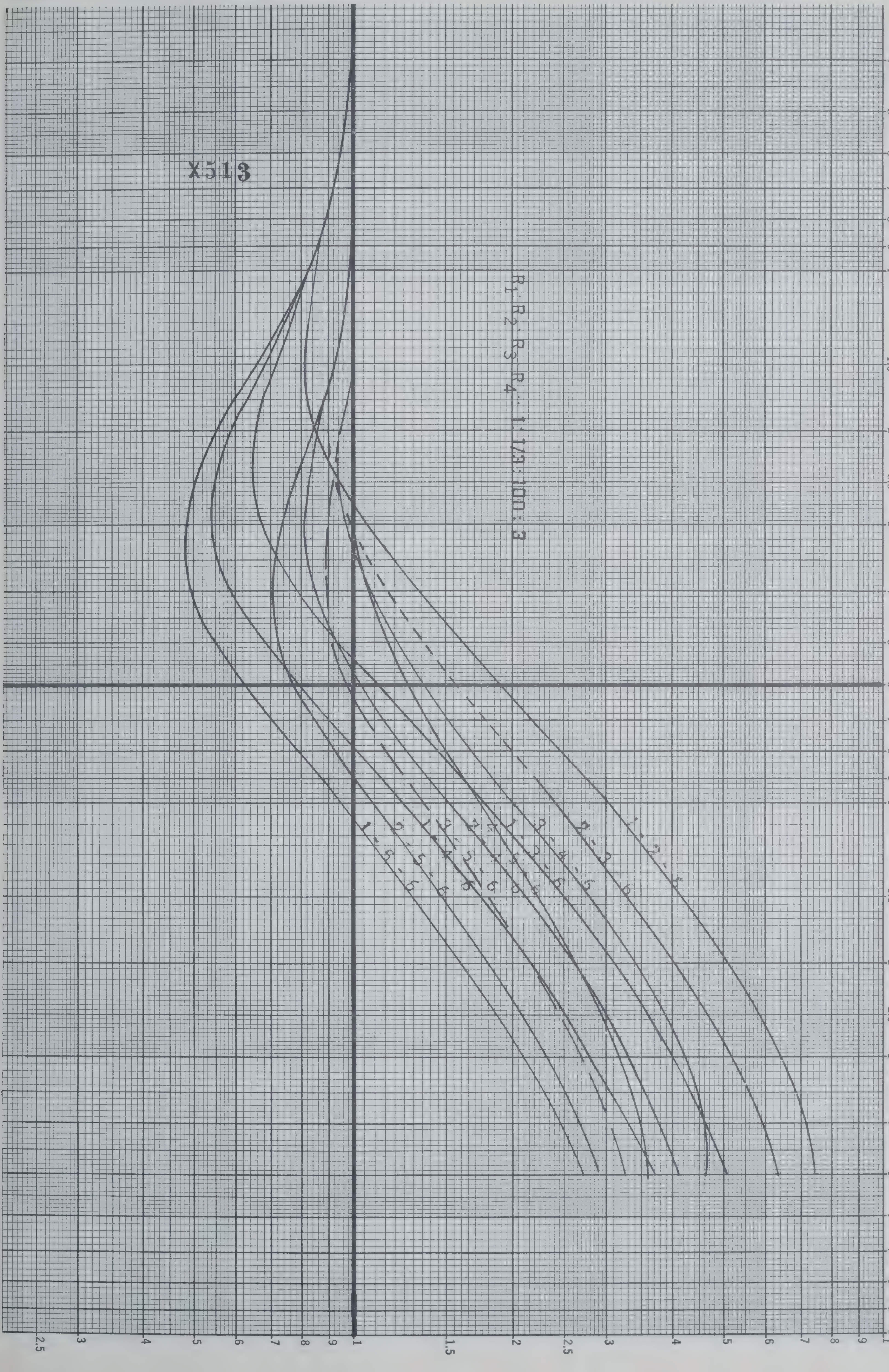
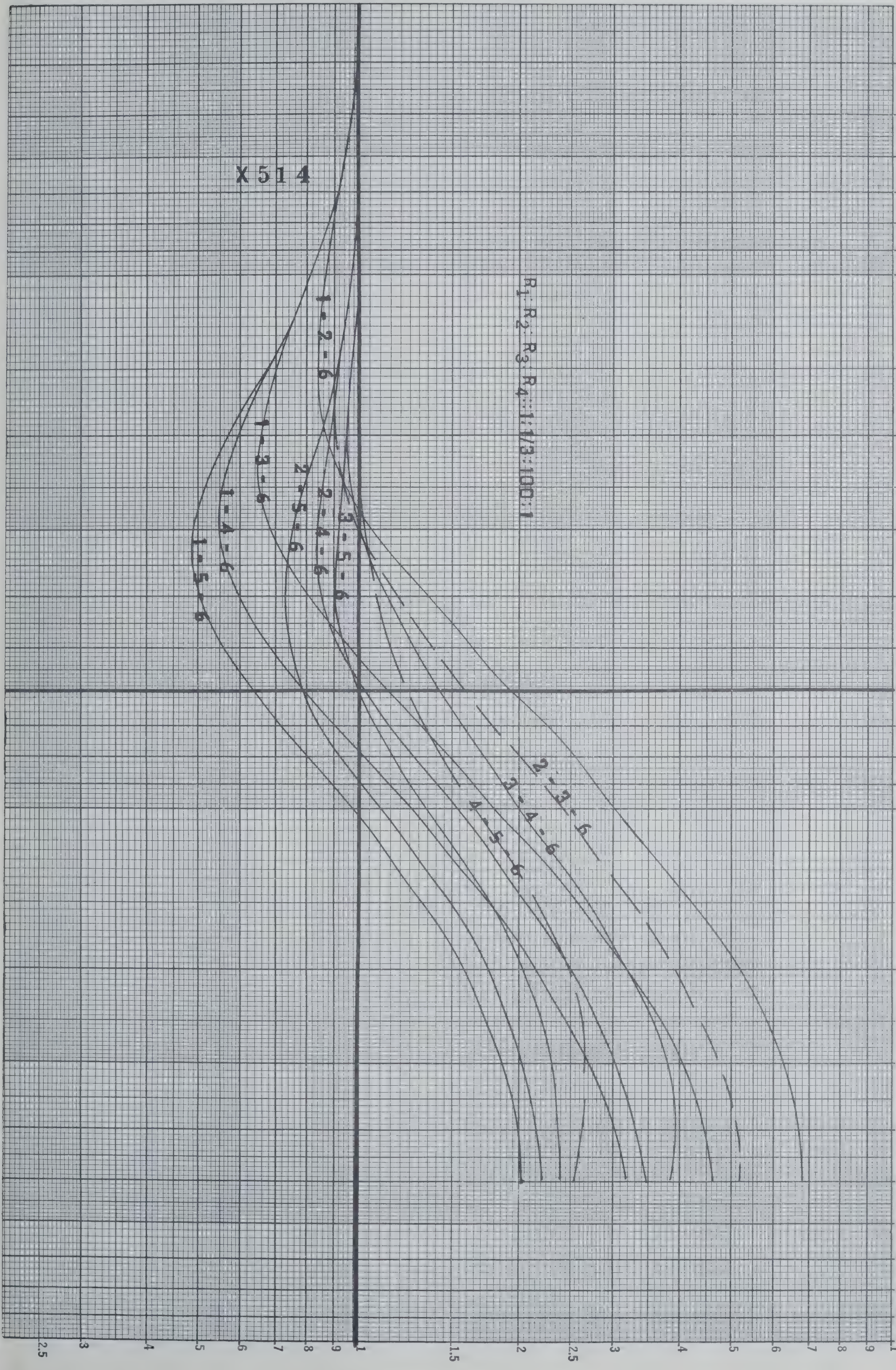
2-3-6
3-4-6
4-5-6


X 51 2
R1:R2:R3:R4::1:1/3:100:10


X513
R1:R2:R3:R4 :: 1:1/3:100:3


X 514
R1:R2:R3:R4::1:1/3:100:1
1-2-6
1-3-6
1-4-6
1-5-6
2-4-6
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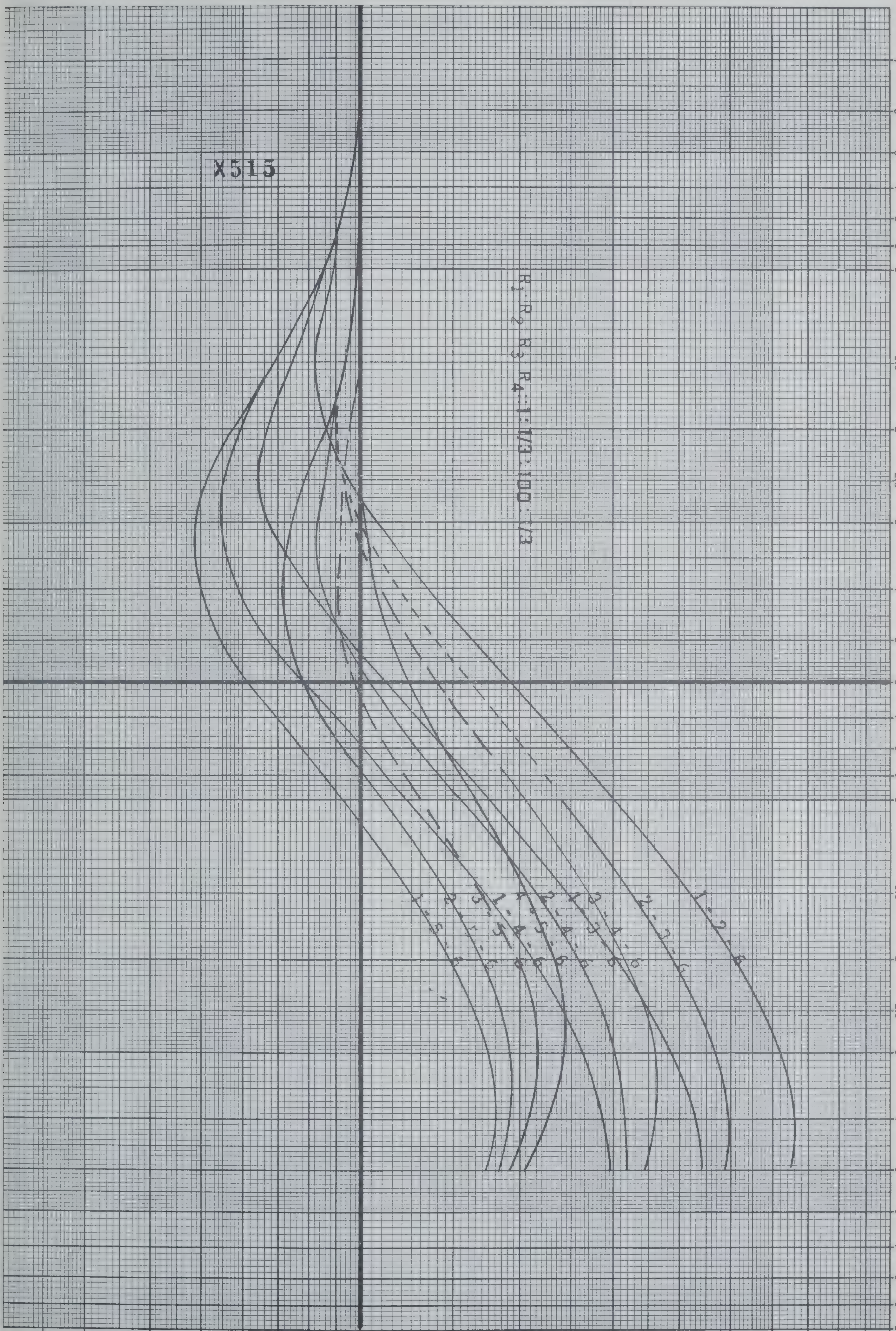
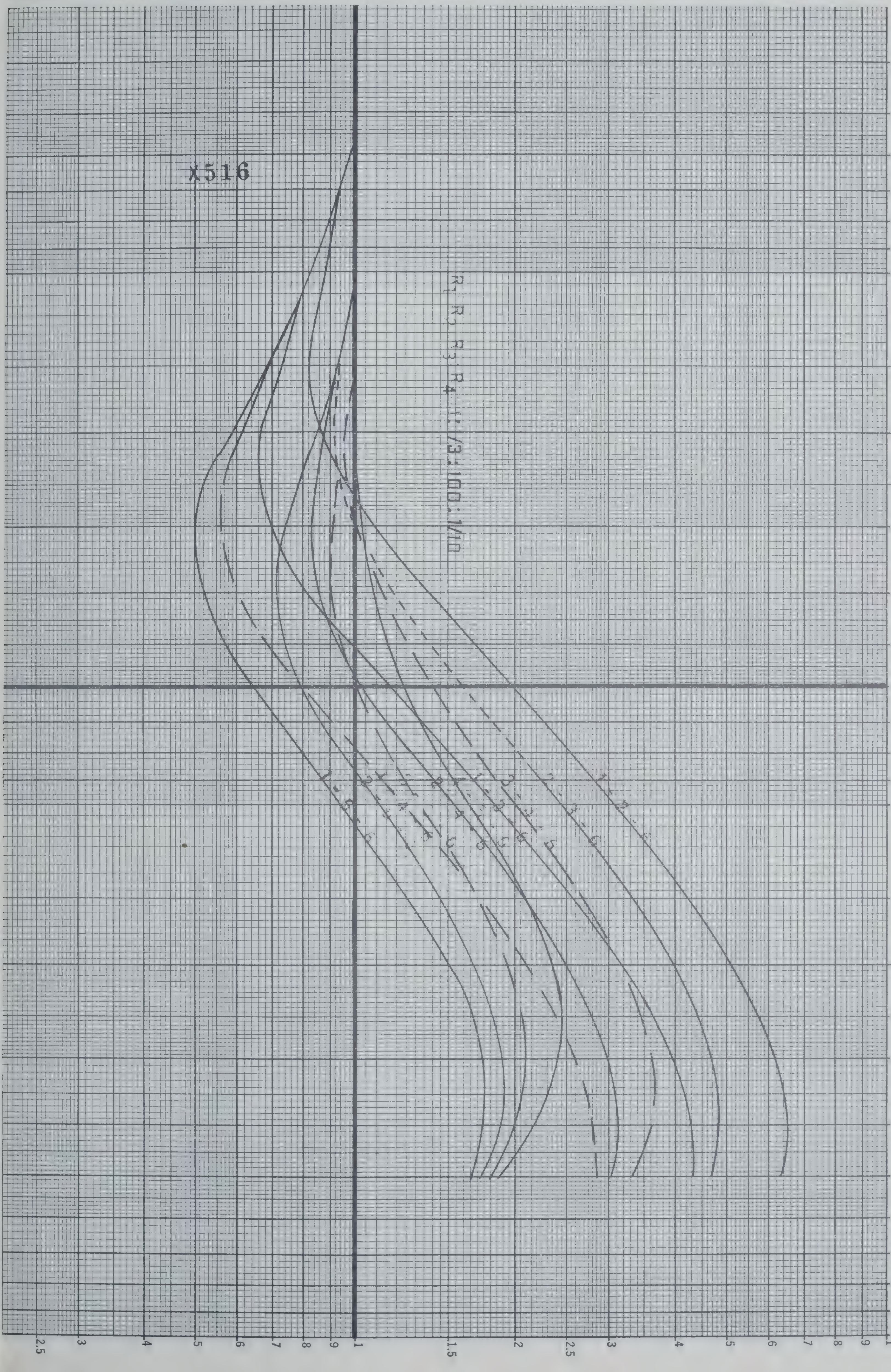
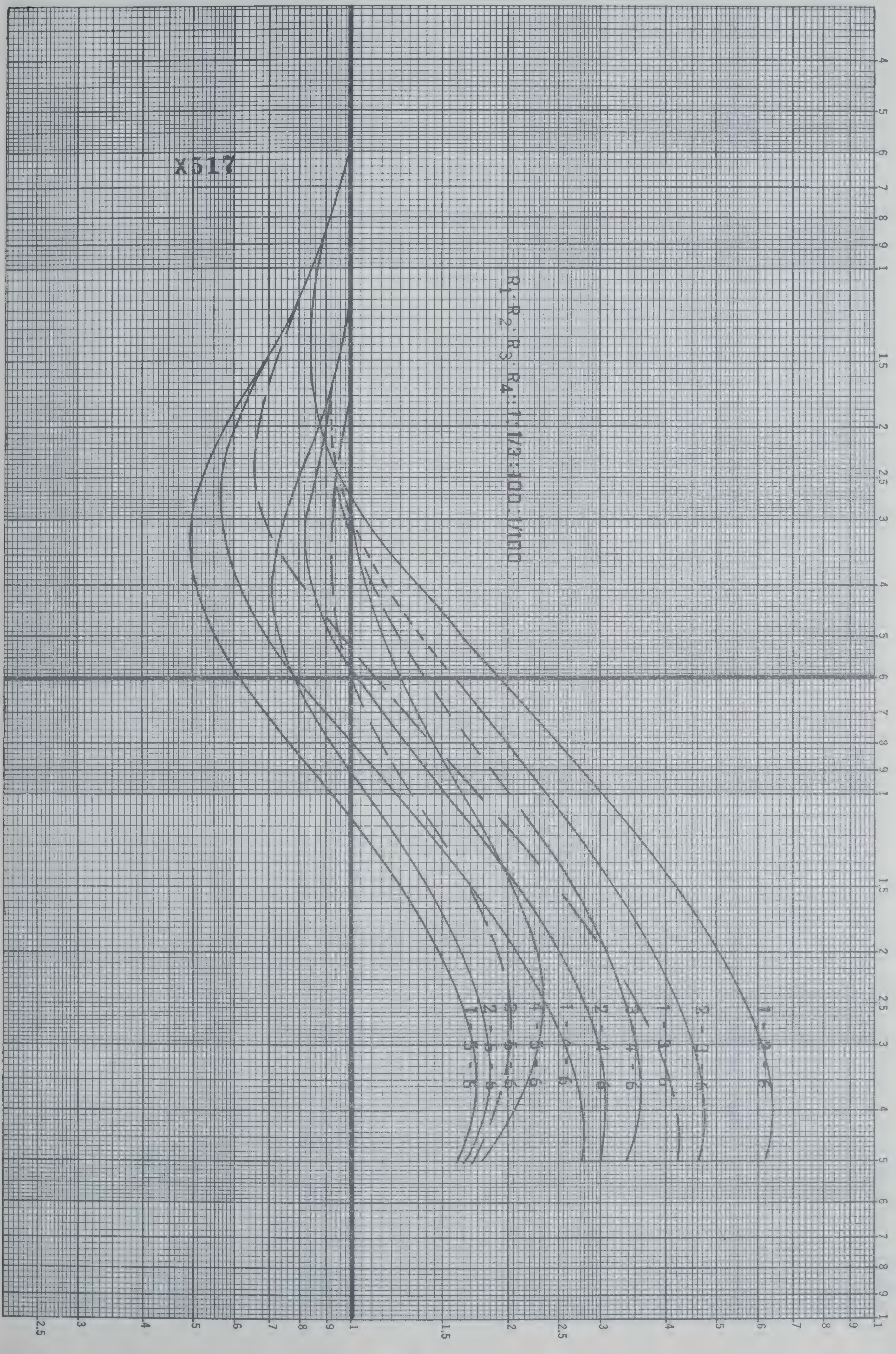
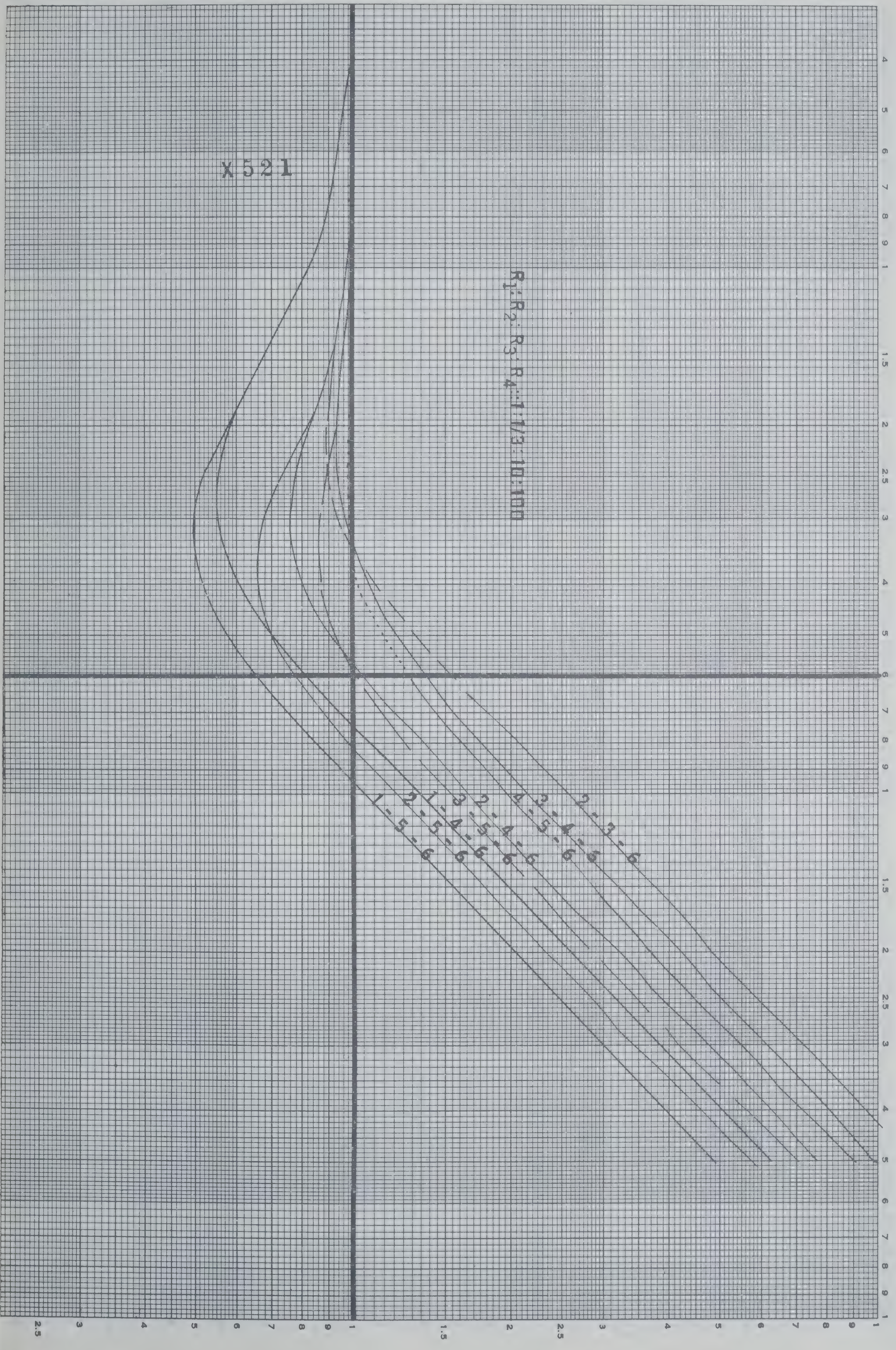
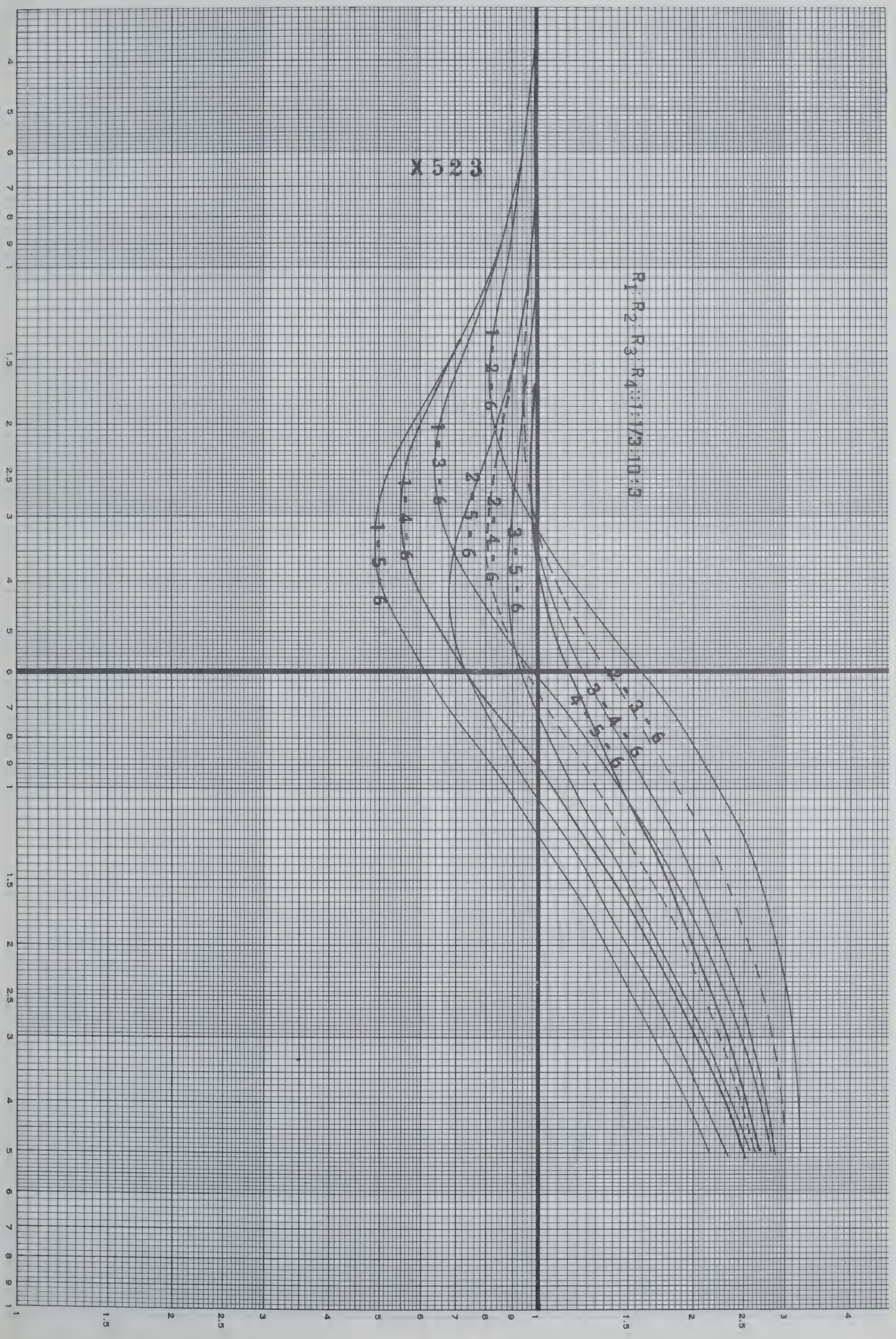
2-3-6
3-4-6
4-5-6

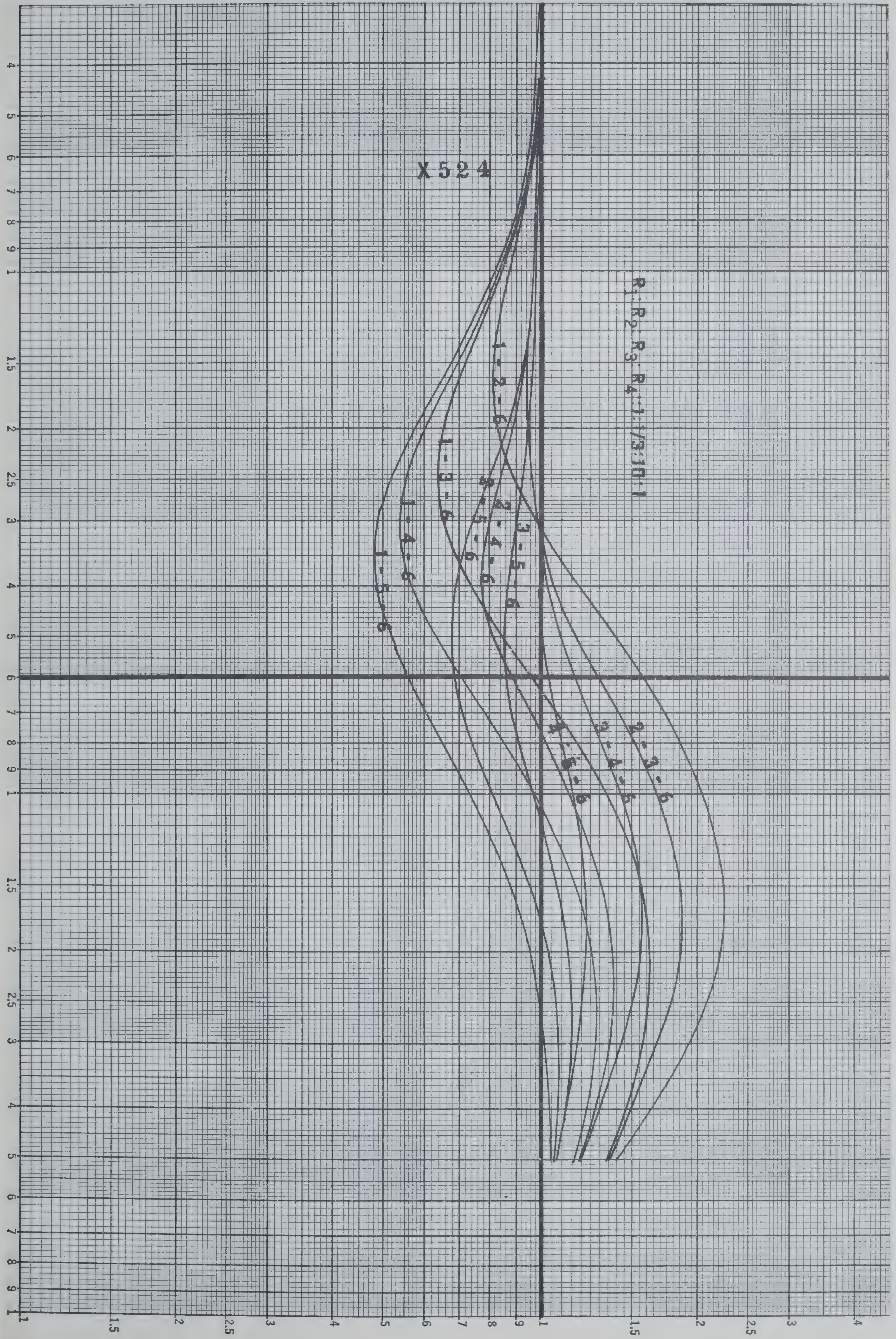

X515
R1:R2:R3:R4=1:1/3:100:1/3

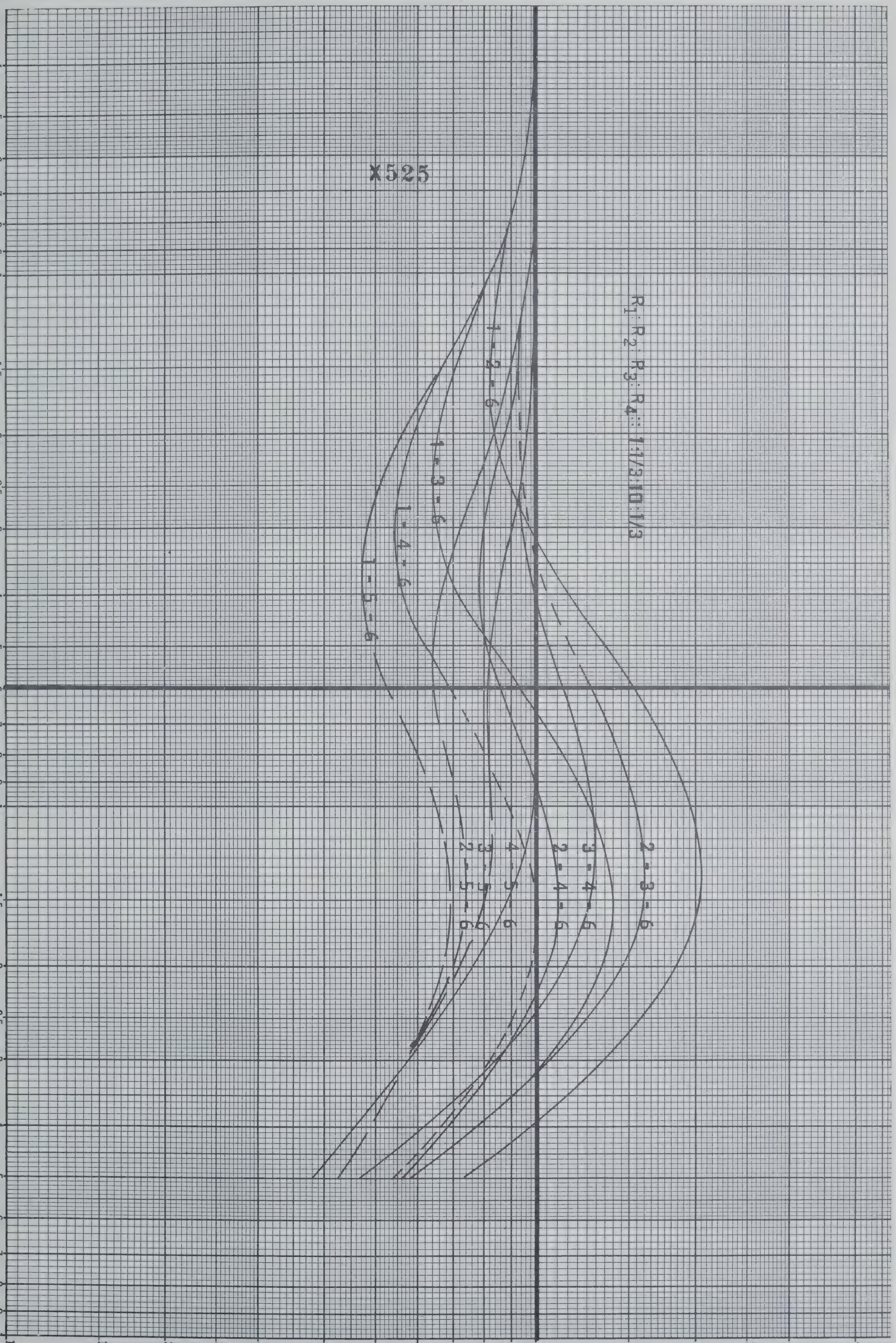

X516
R1:R2:R3:R4 1:1/3:100:1/10

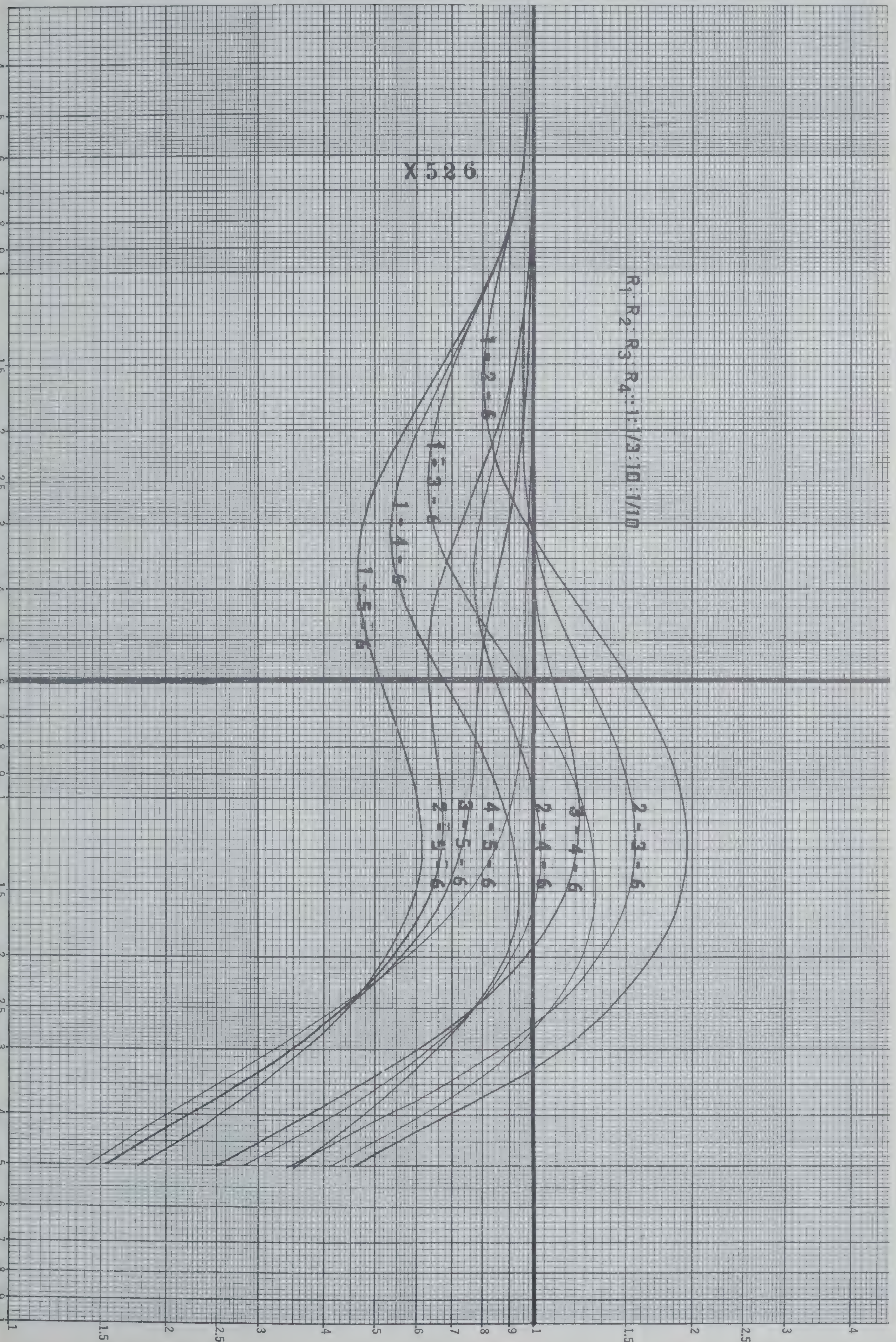

X517
R1:R2:R3:R4::1:1/3:100:1/100
1-5-6
2-5-6
3-5-6
4-5-6
1-4-6
2-4-6
3-4-6
1-3-6
2-3-6
1-2-6

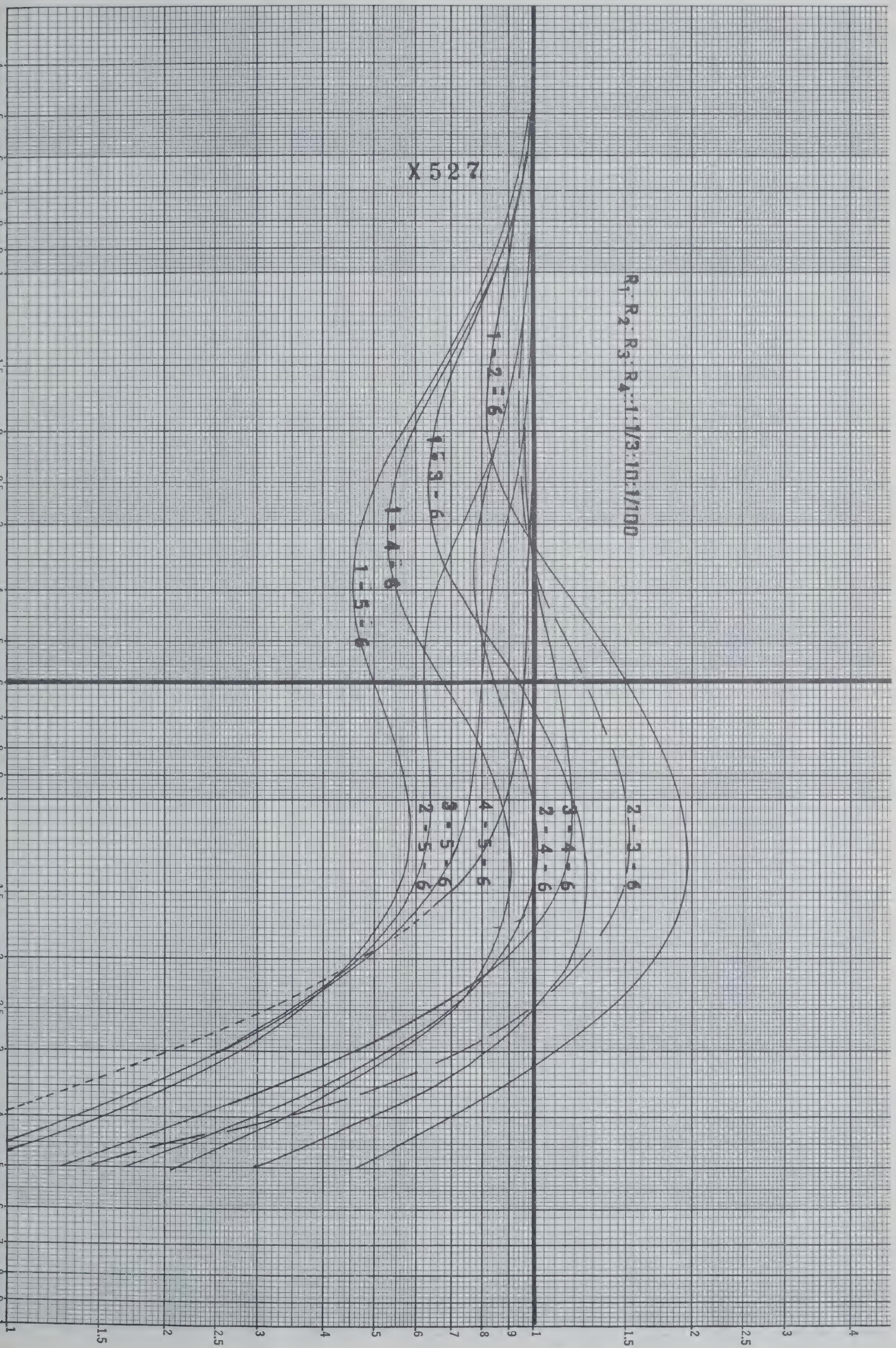

X 521
R1:R2:R3:R4::1:1/3:10:100
1-5-6
2-5-6
1-4-6
3-5-6
2-4-6
4-5-6
3-4-6
2-3-6


X523
R1:R2:R3:R4::1:1/3:10:3
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
2-4-6
3-5-6
2-3-6
3-4-6
4-5-6


X 524
R1:R2:R3:R4::1:1/3:10:1
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
3-5-6
2-3-6
3-4-6
4-5-6


X525
R1:R2:R3:R4::1:1/3:10:1/3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
3-4-6
2-4-6
4-5-6
3-5-6
2-5-6


X 526
R1:R2:R3:R4::1:1/3:10:1/10
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
3-5-6
4-5-6
2-4-6
3-4-6
2-3-6


X 527
R1:R2:R3:R4::1:1/3:10:1/100
1-2-6
1-3-6
1-4-6
1-5-6
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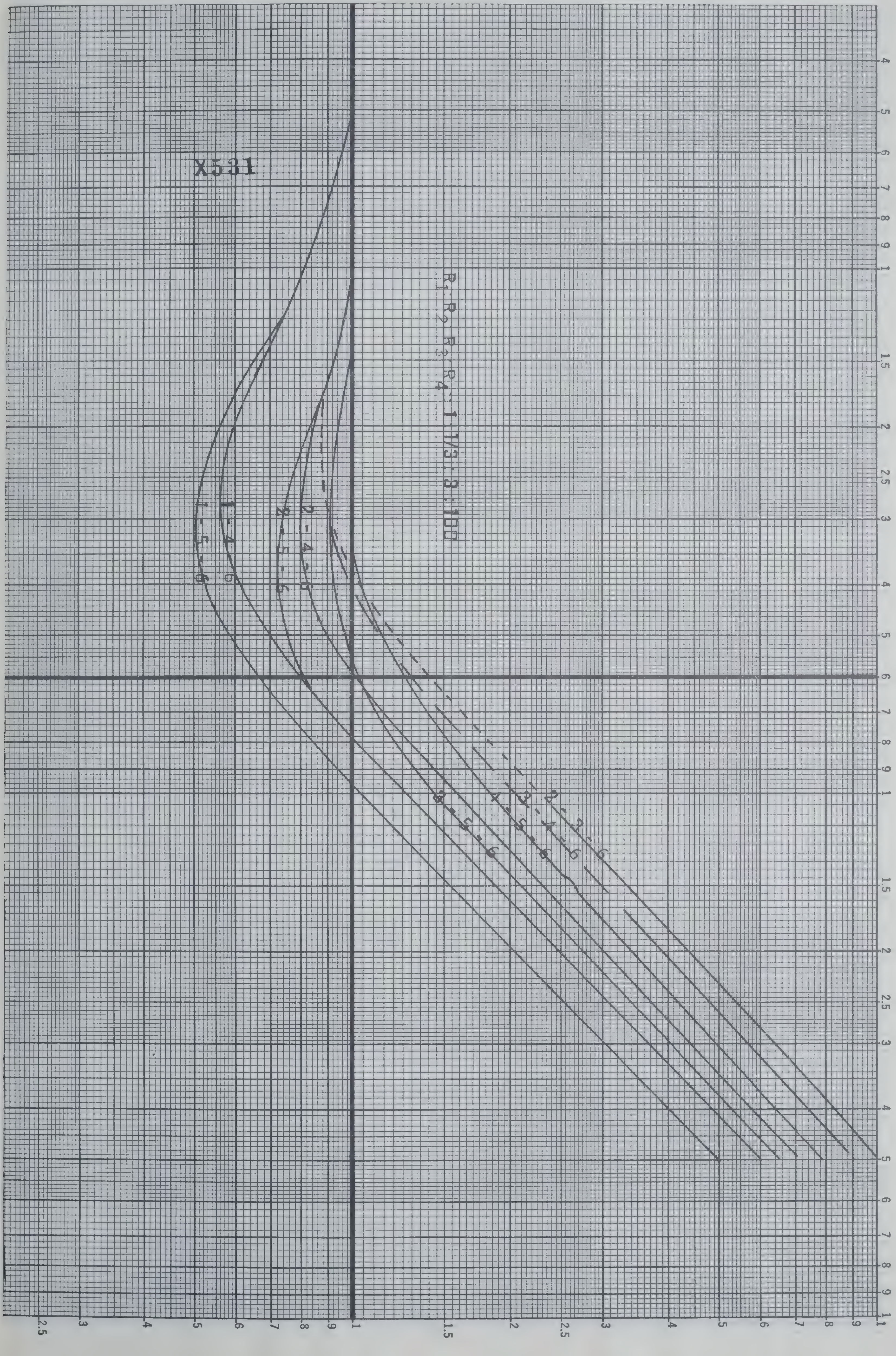
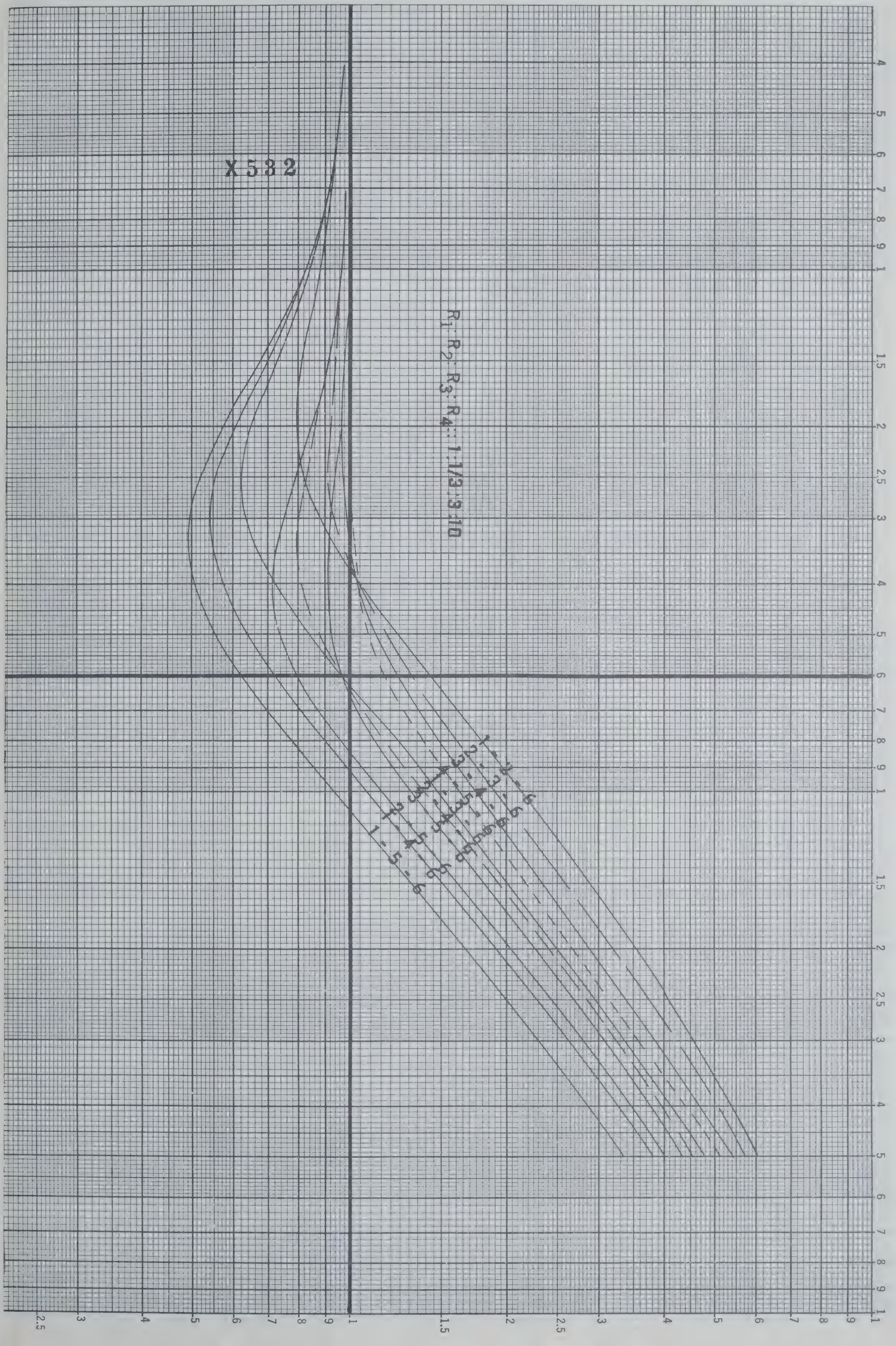
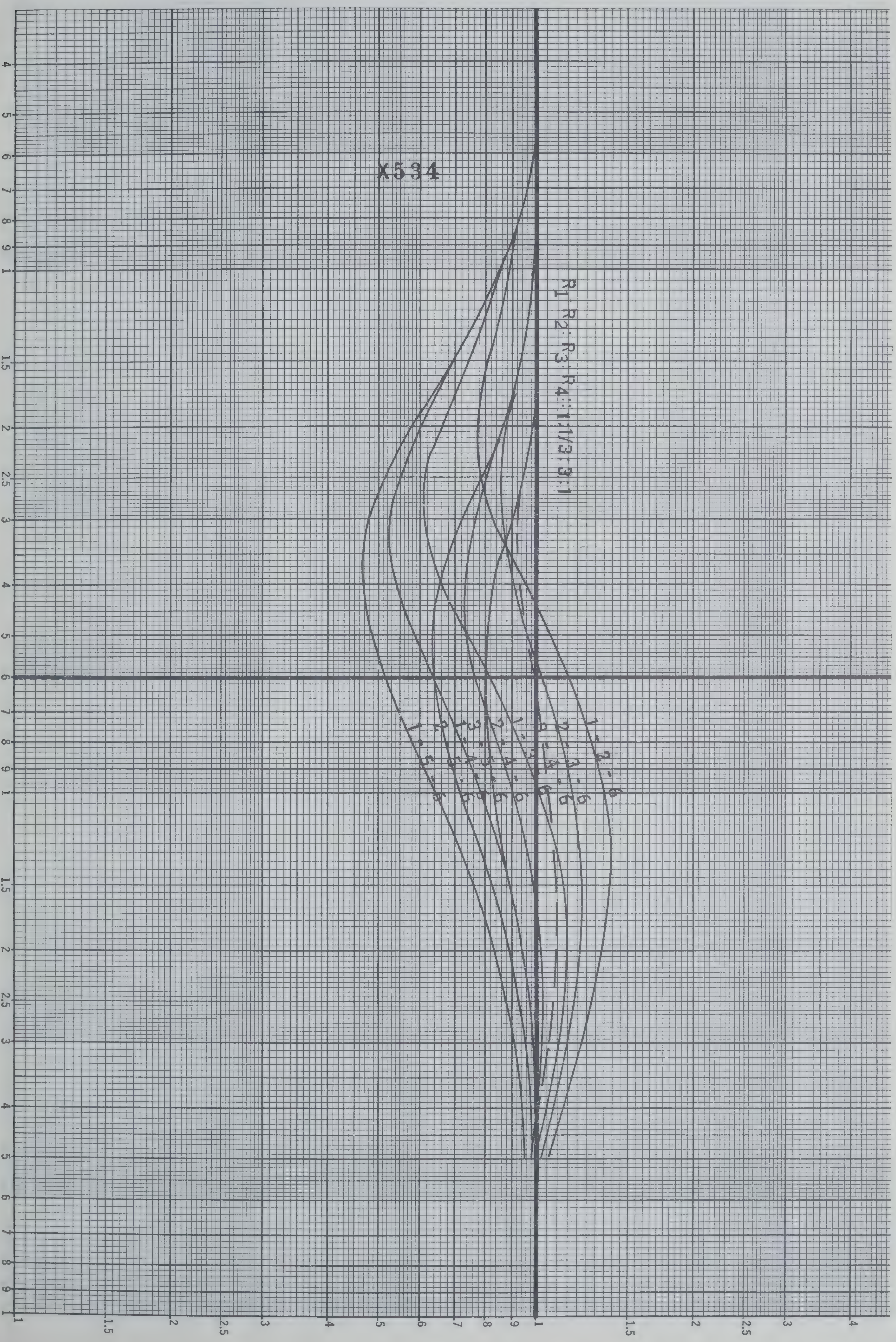
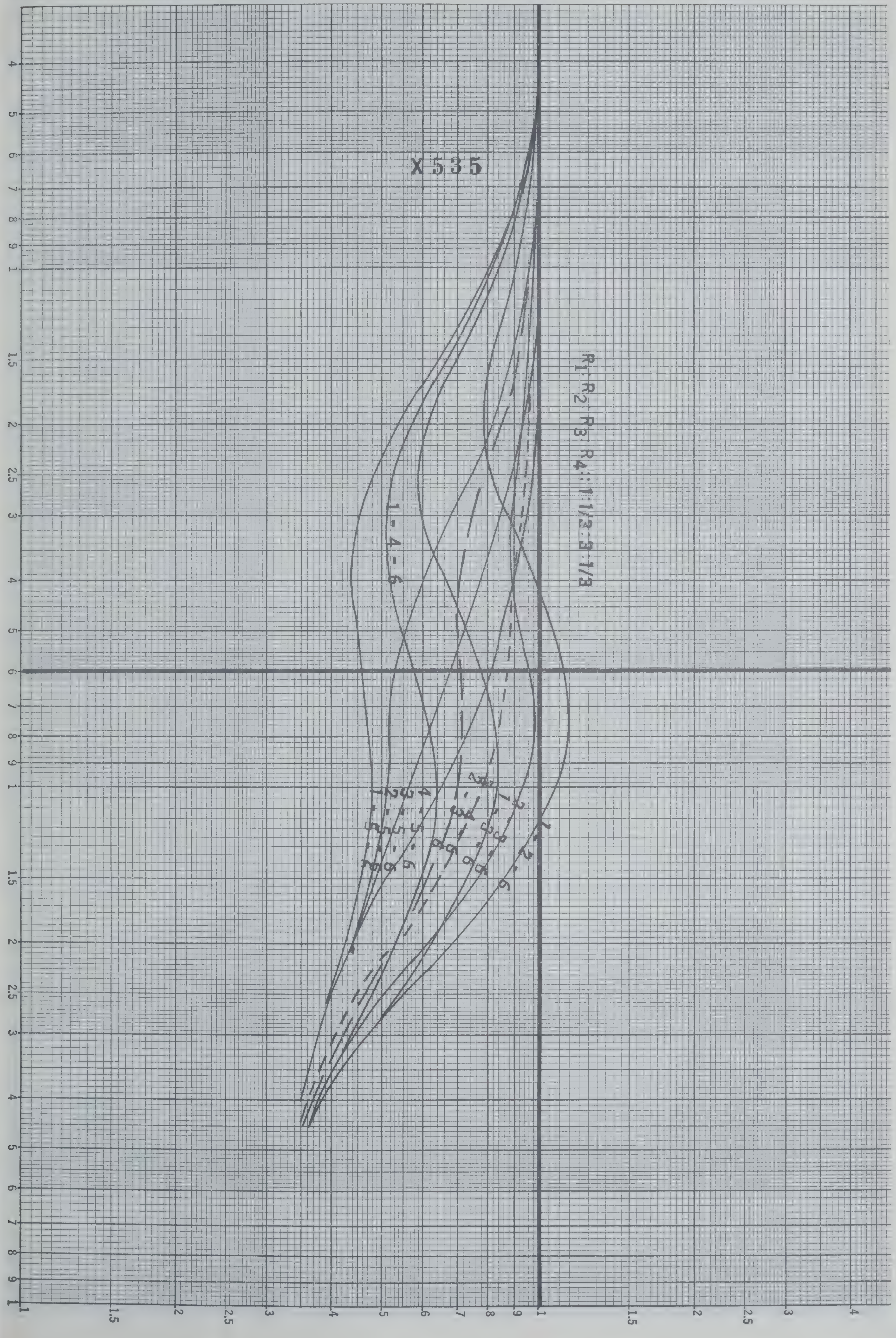
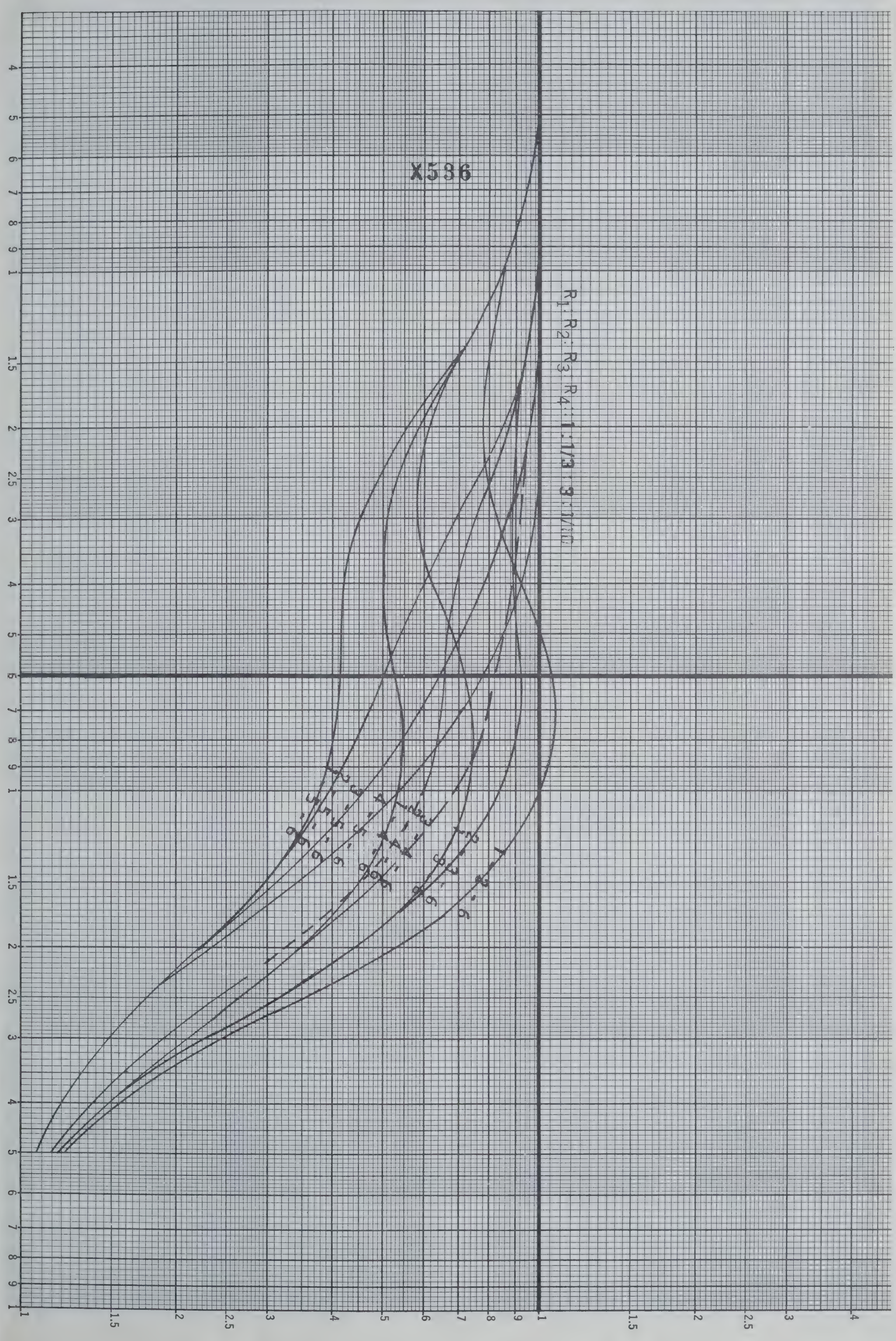
2-4-6
3-4-6
2-3-6

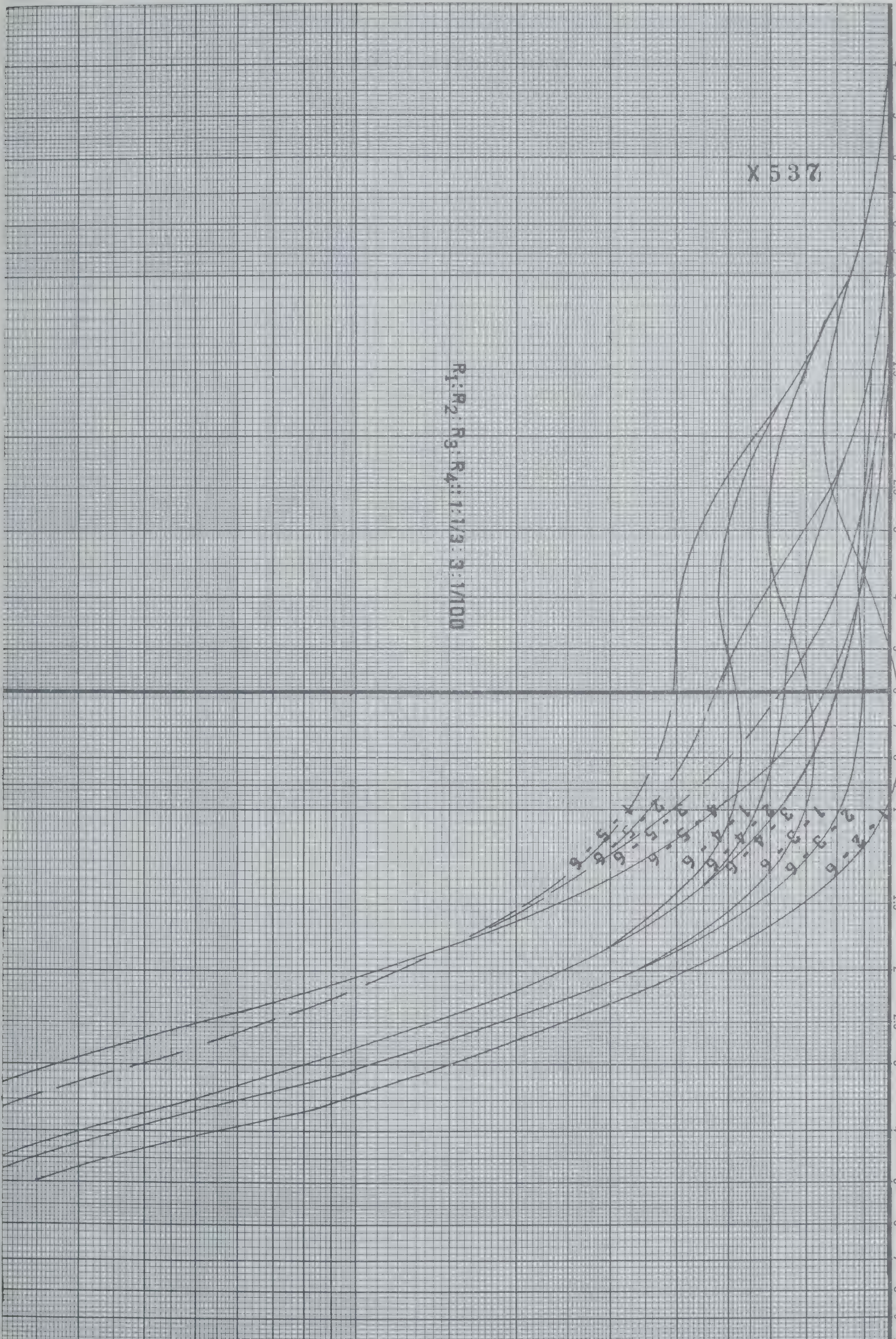

X531
R1:R2:R3:R4 1:1/3:3:100
1-5-6
1-4-6
2-5-6
2-4-6

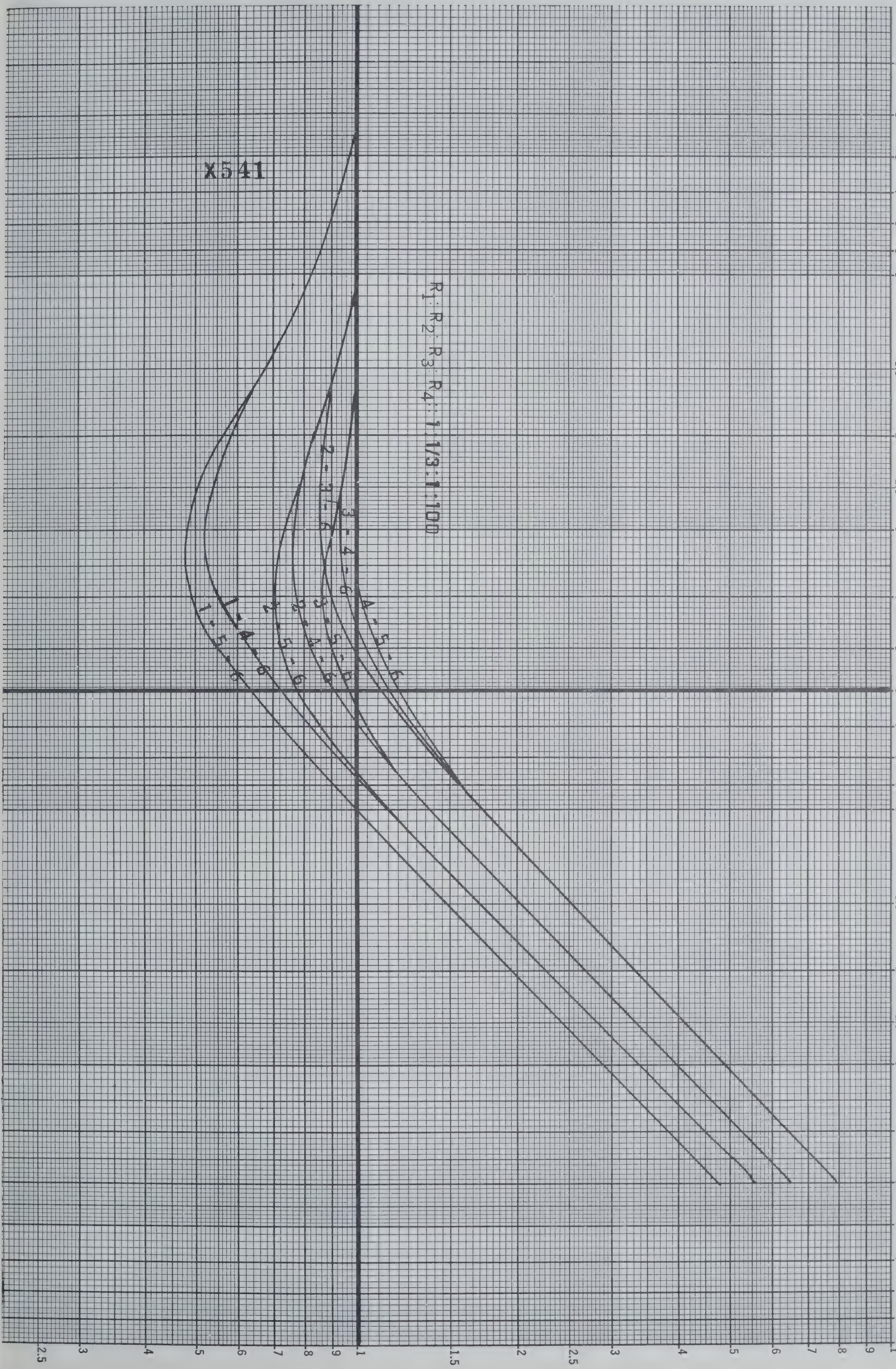

X532
R1:R2:R3:R4::1:1/3:3:10

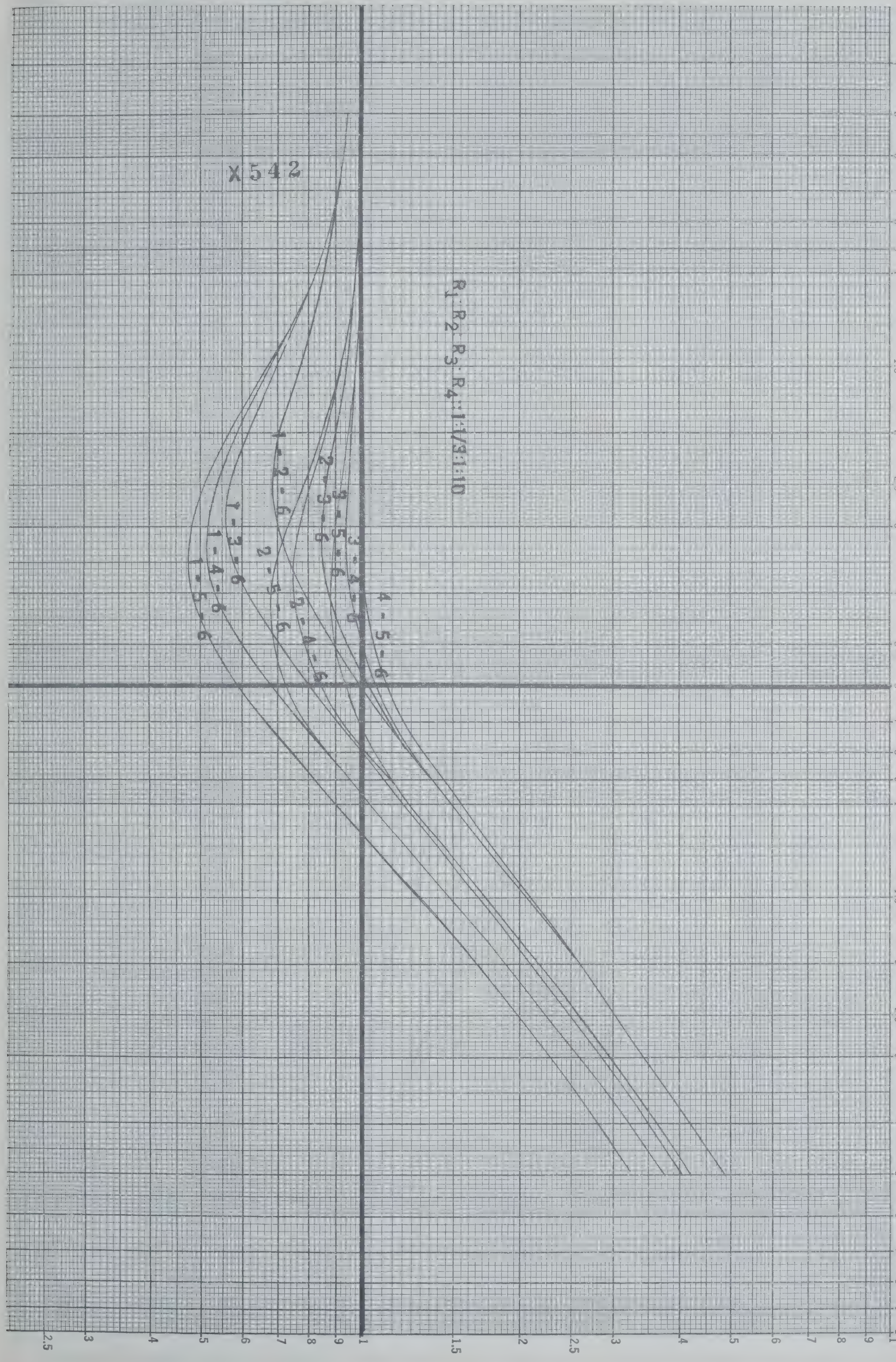

X534
R1:R2:R3:R4::1:1/3:3:1


X 535
R1: R2: R3: R4 :: 1:1/3:3:1/3
1-4-6


X536
R1:R2:R3:R4::1:1/3:3:1/10


X 537
R1:R2:R3:R4::1:1/3:3:1/100


X541
R1:R2:R3:R4::1:1/3:1:100
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6


X 542
R1:R2:R3:R4::1:1/3:1:10
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
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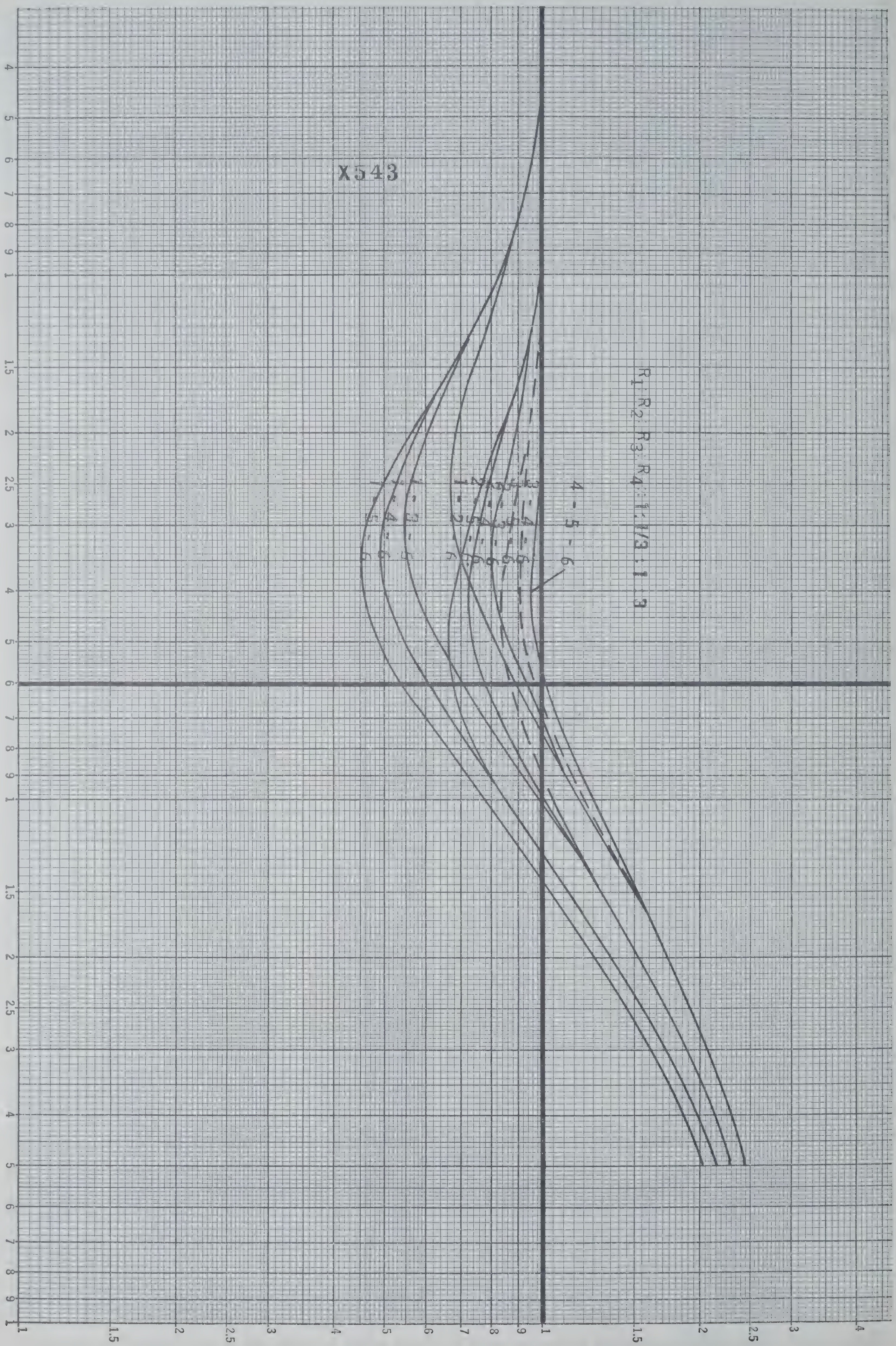
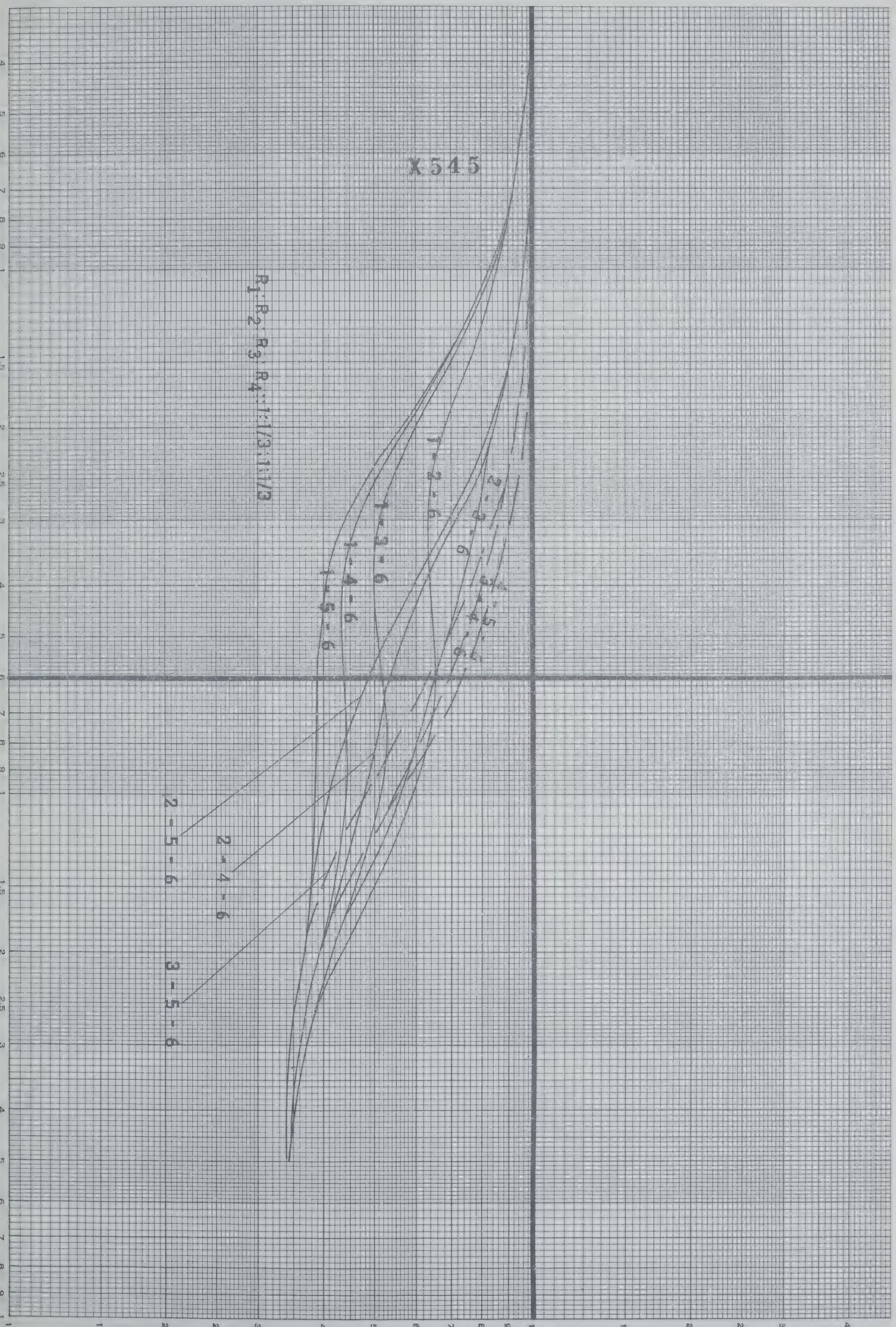
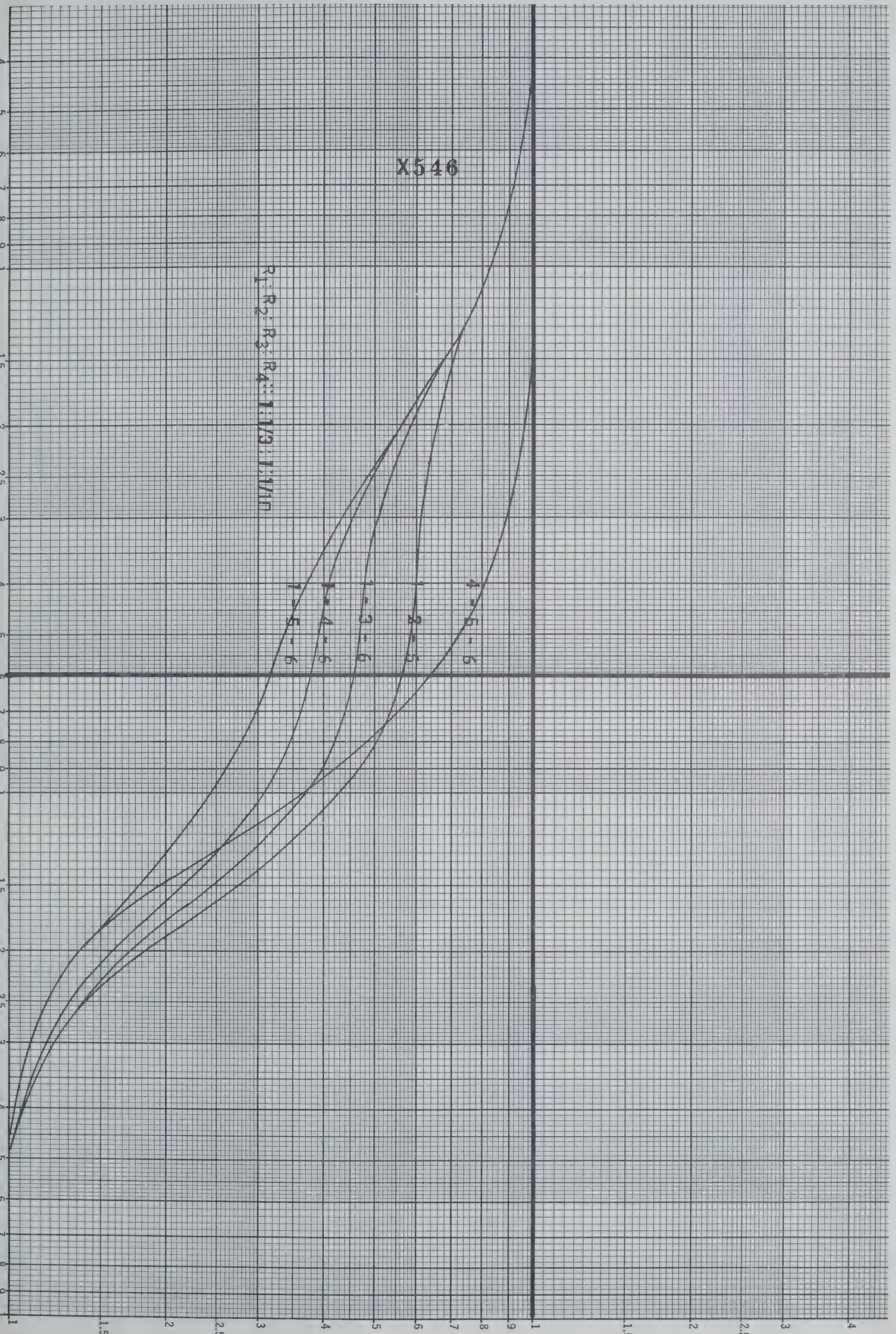
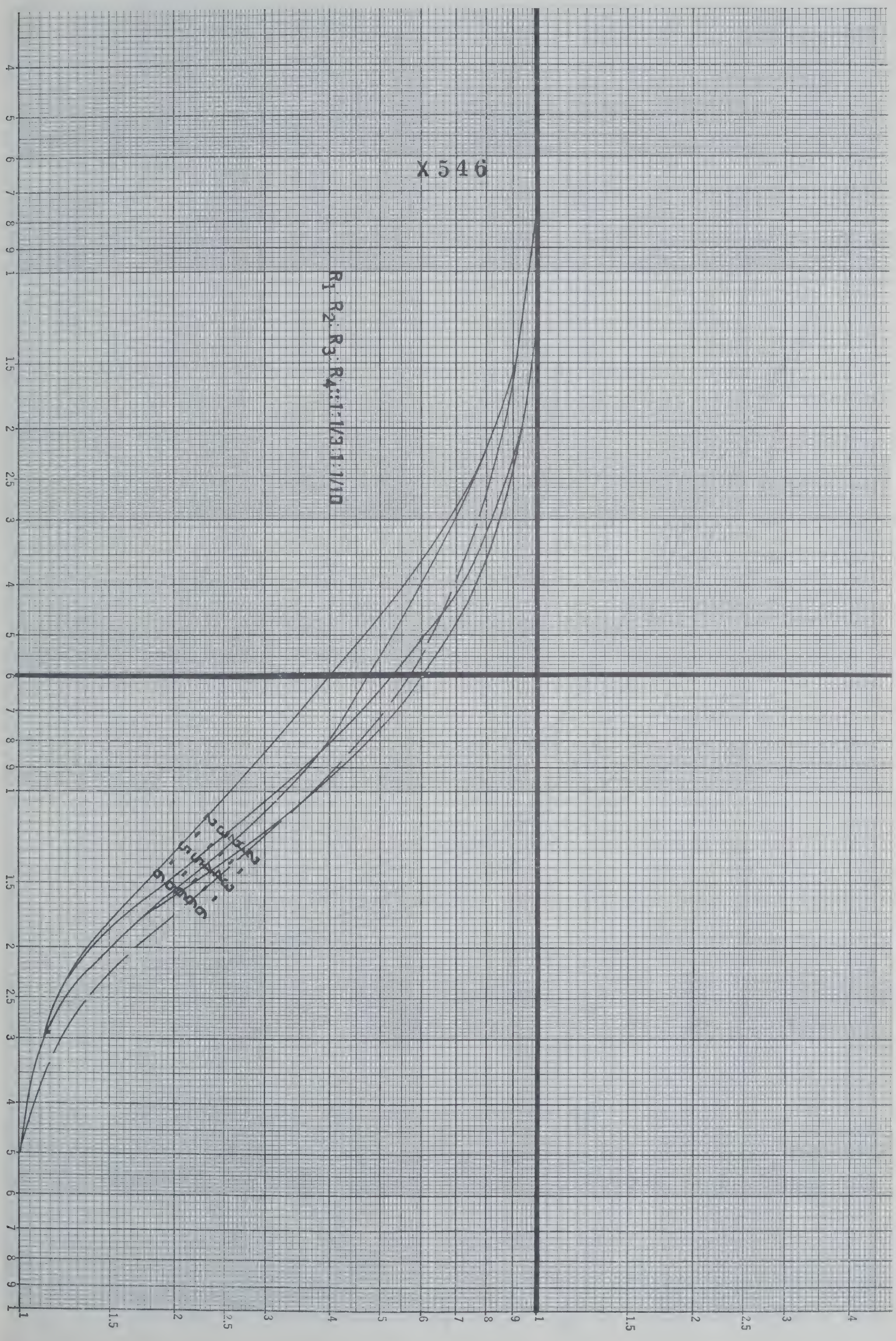
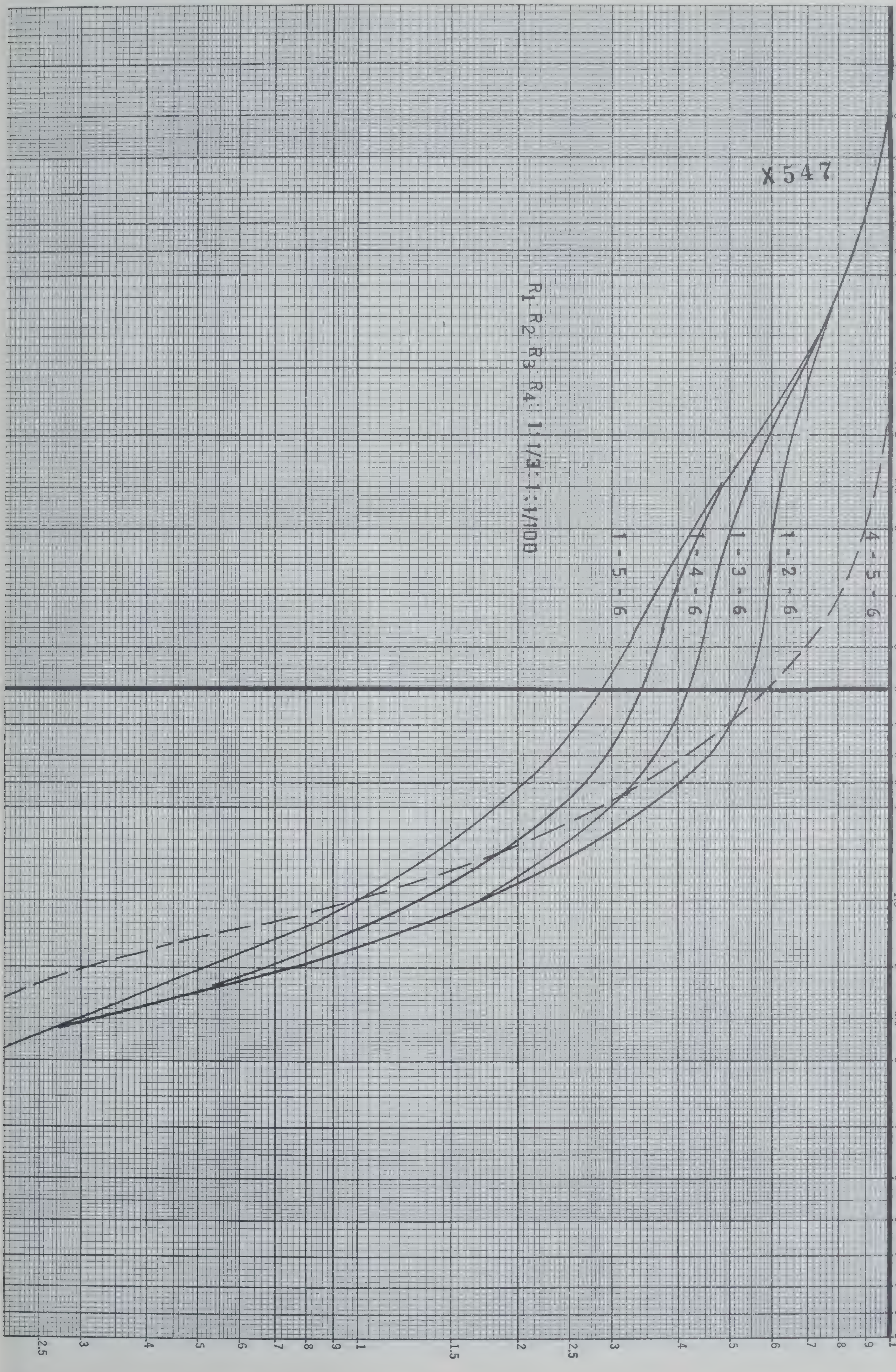
3-4-6
3-5-6
4-5-6

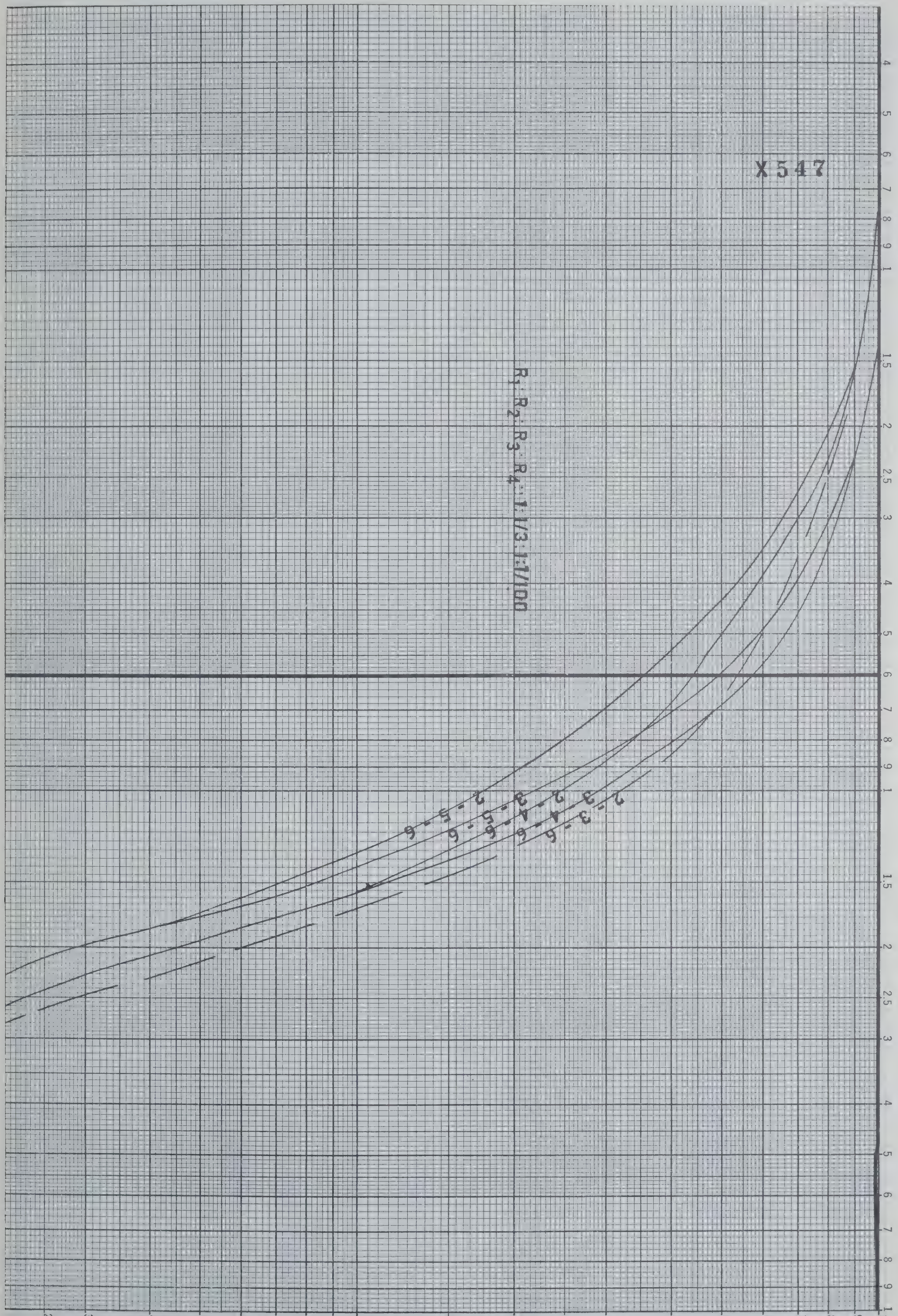

X543
R1 R2 R3 R4 : 1 : 1/3 : 1 : 3
4 - 5 - 6

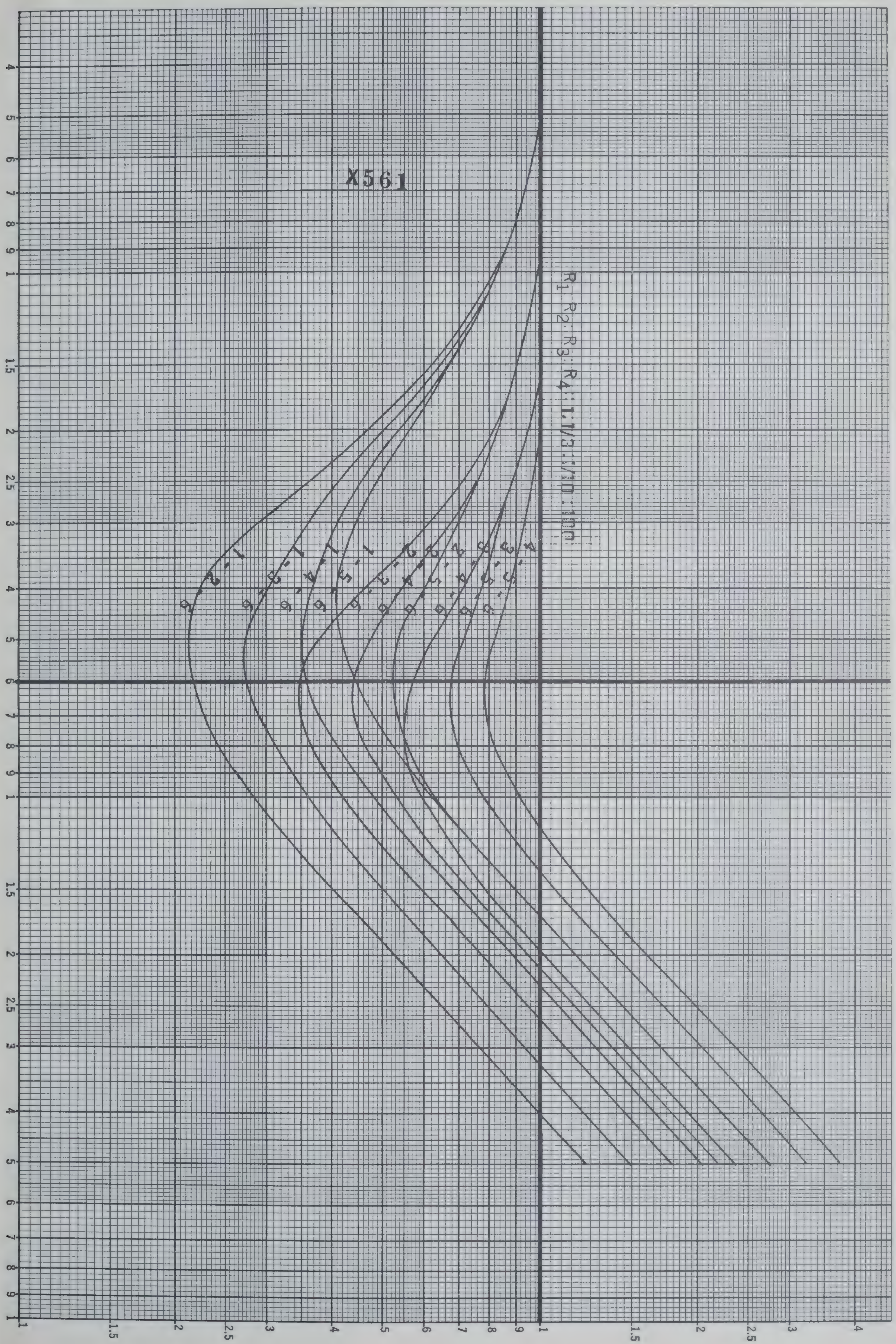

X 545
R1:R2:R3:R4::1:1/3:1:1/3
1-2-6
1-3-6
1-4-6
1-5-6
2-5-6
2-4-6
3-5-6

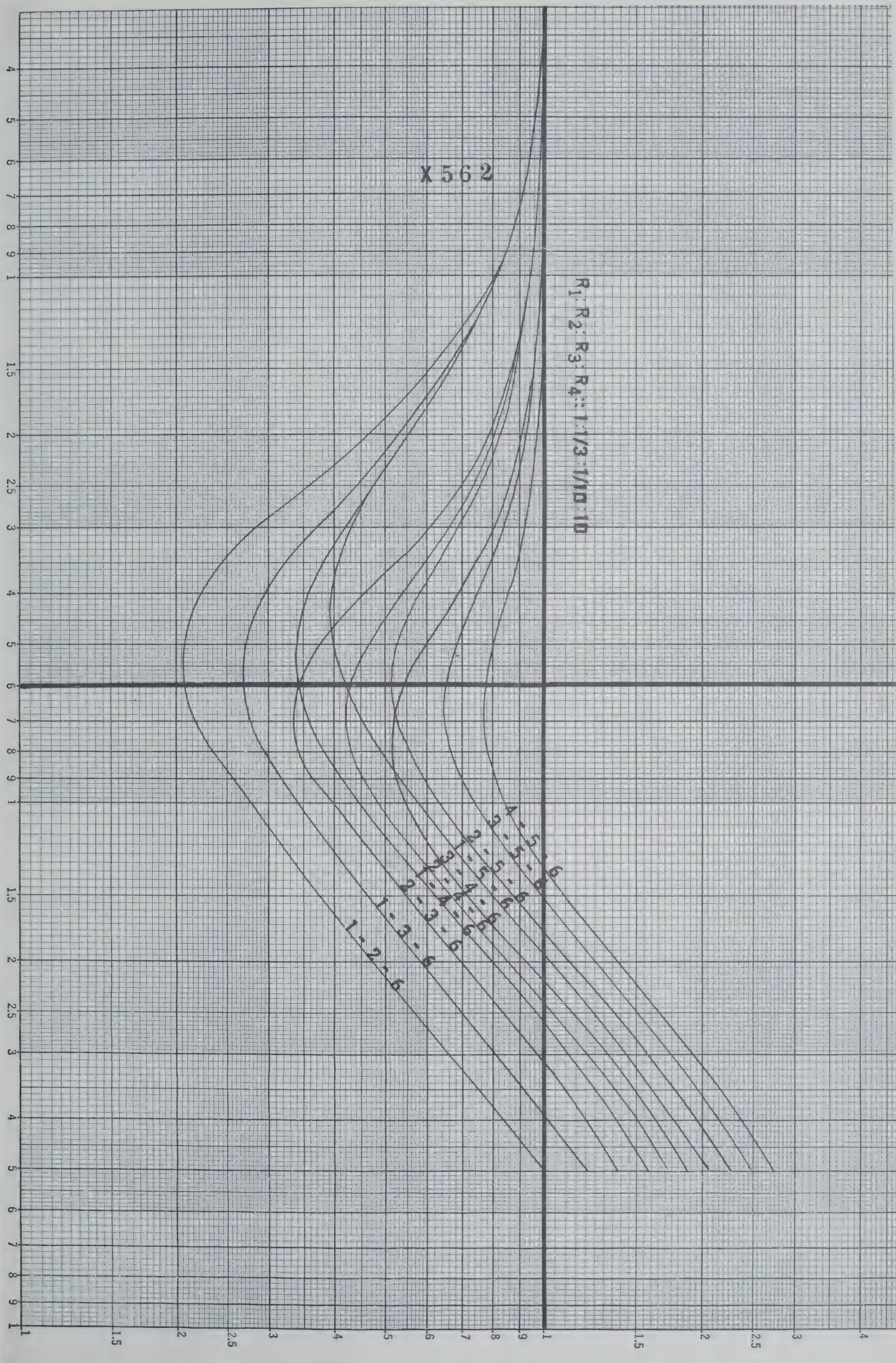

X546
R1:R2:R3:R4::1:1/3:1:1/n

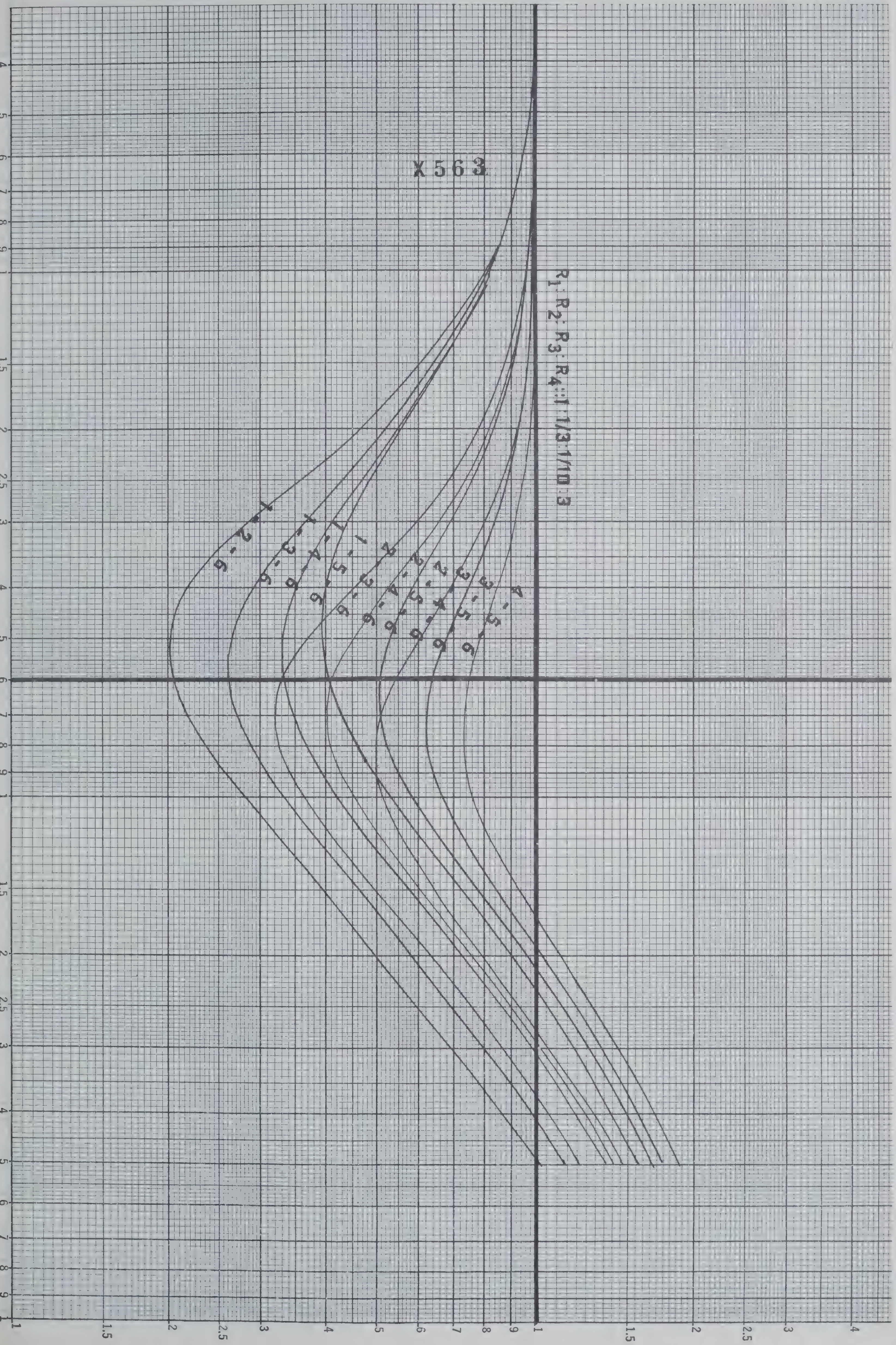

X 546
R1 R2 R3 R4::1:1/3:1:1/10

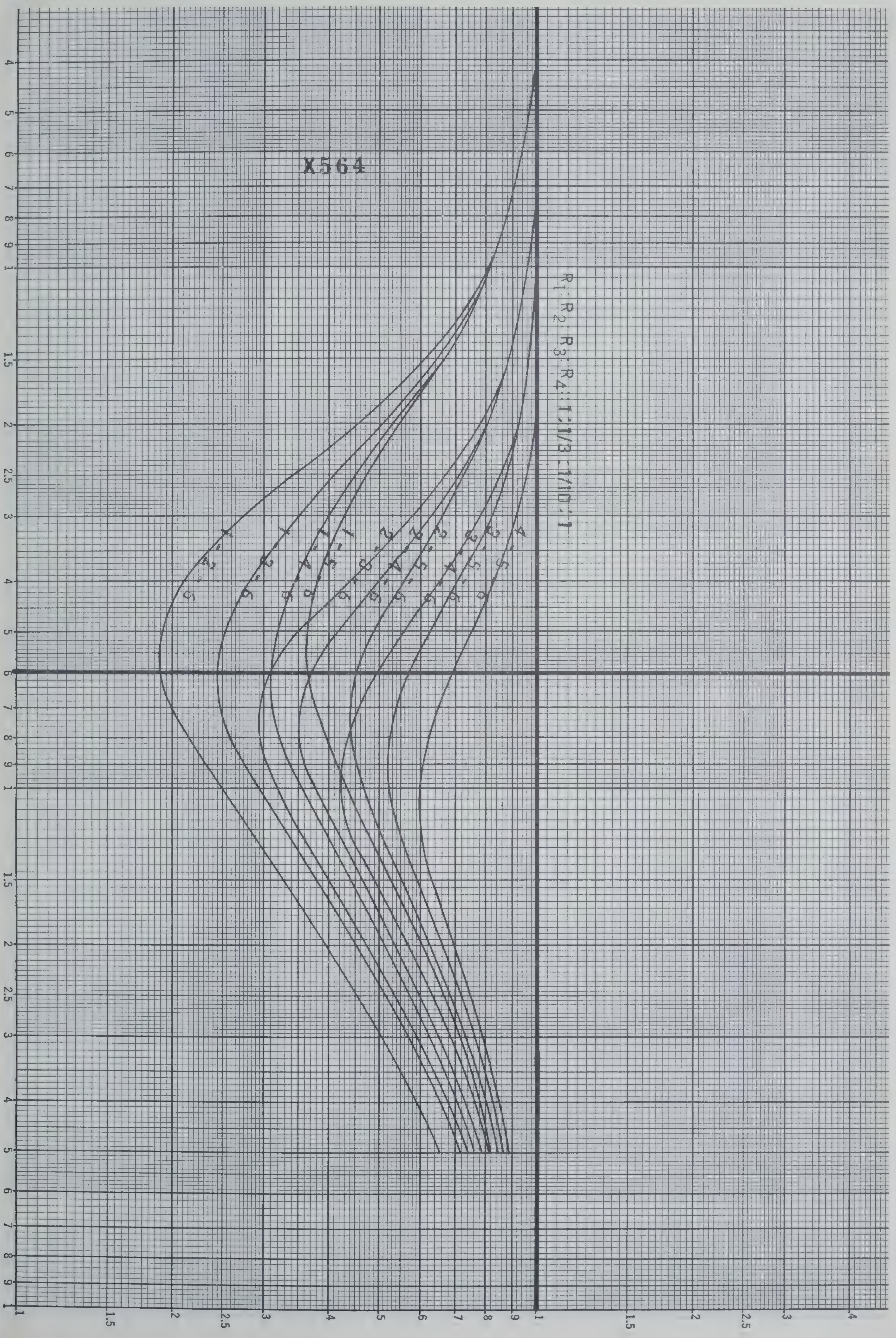

X 547
R1: R2: R3: R4: 1:1/3:1:1/100
1 - 5 - 6
1 - 4 - 6
1 - 3 - 6
1 - 2 - 6
4 - 5 - 6

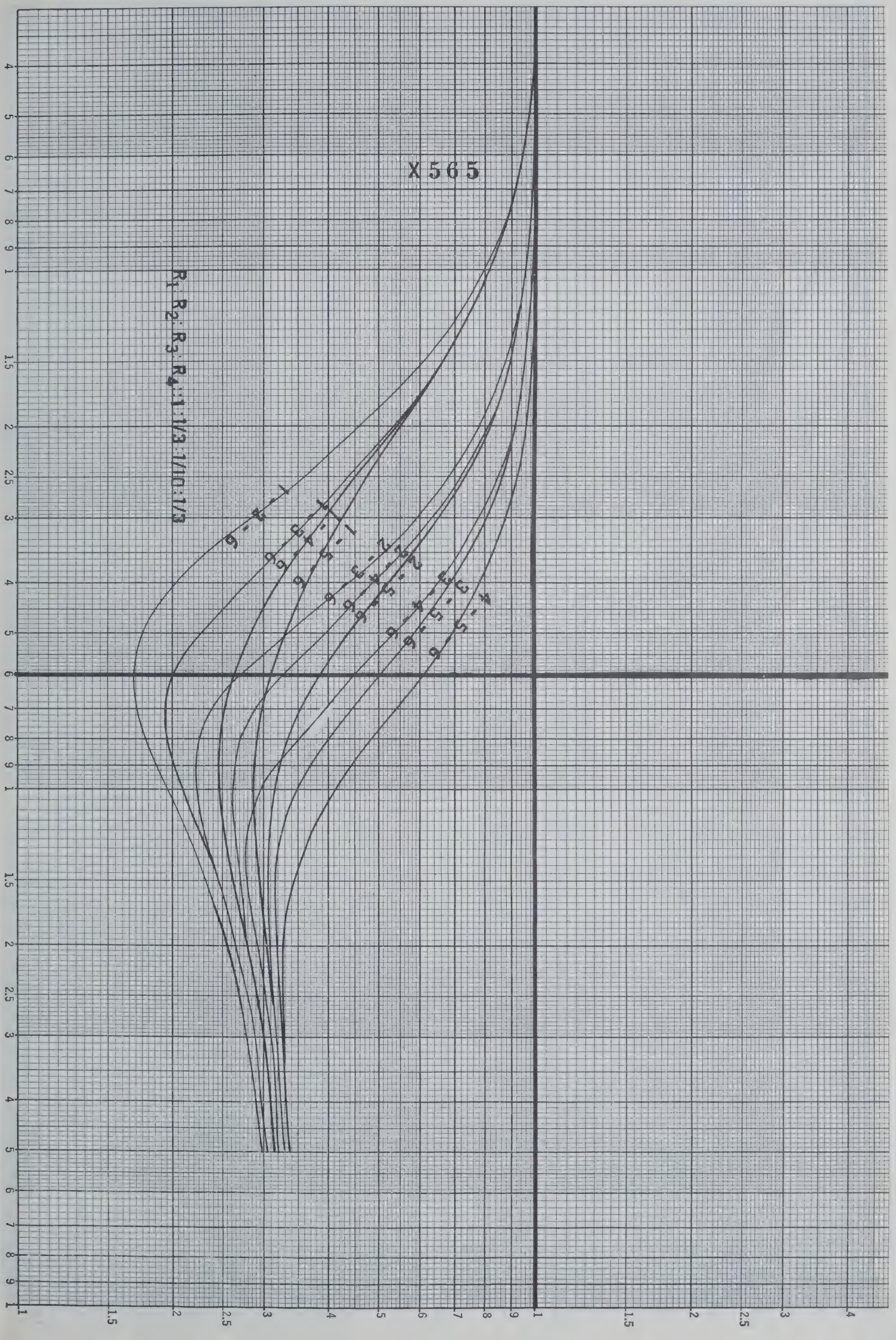

X 547
R1:R2:R3:R4: 1:1/3:1:1/100

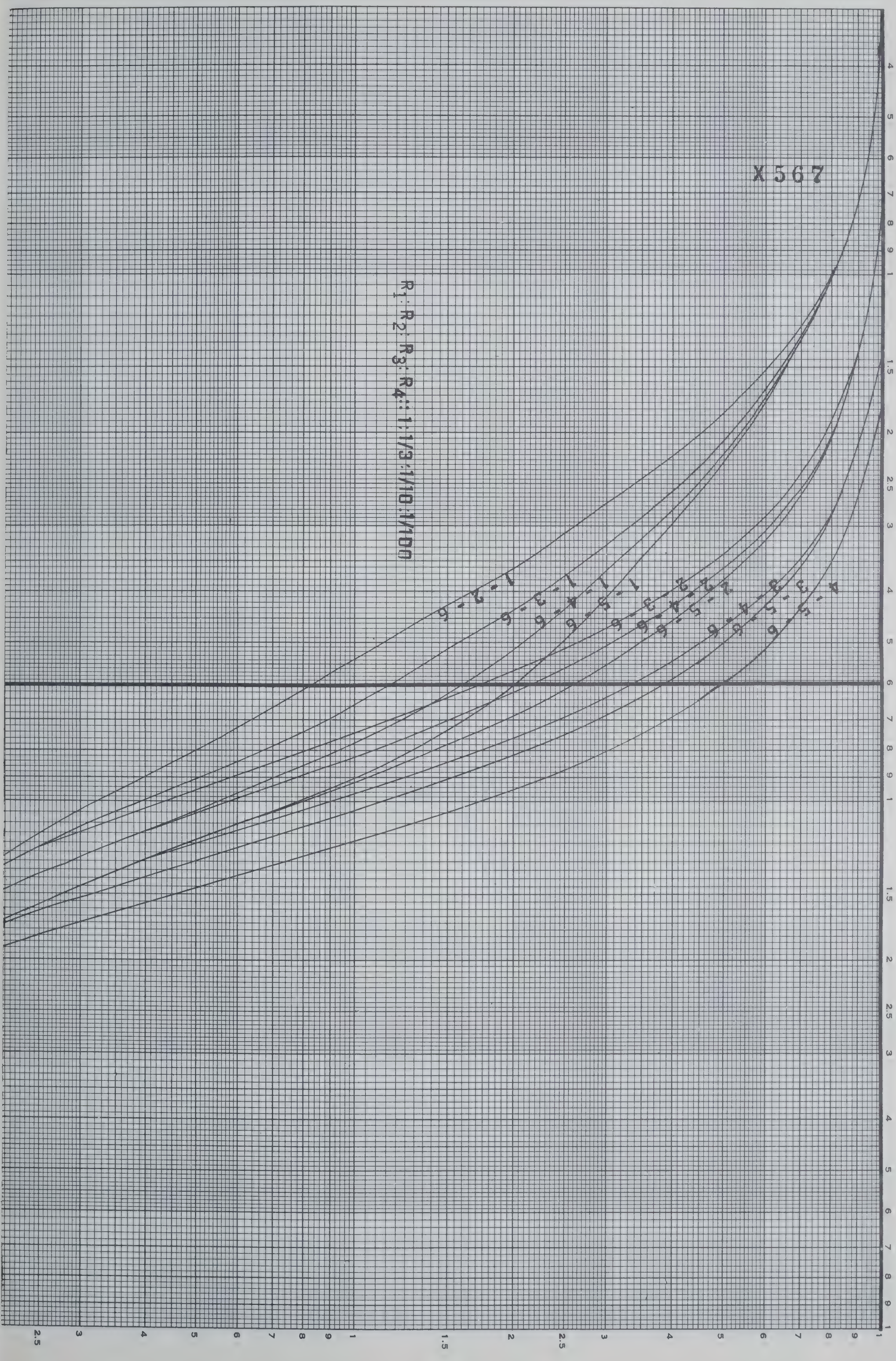

X561
R1: R2: R3: R4

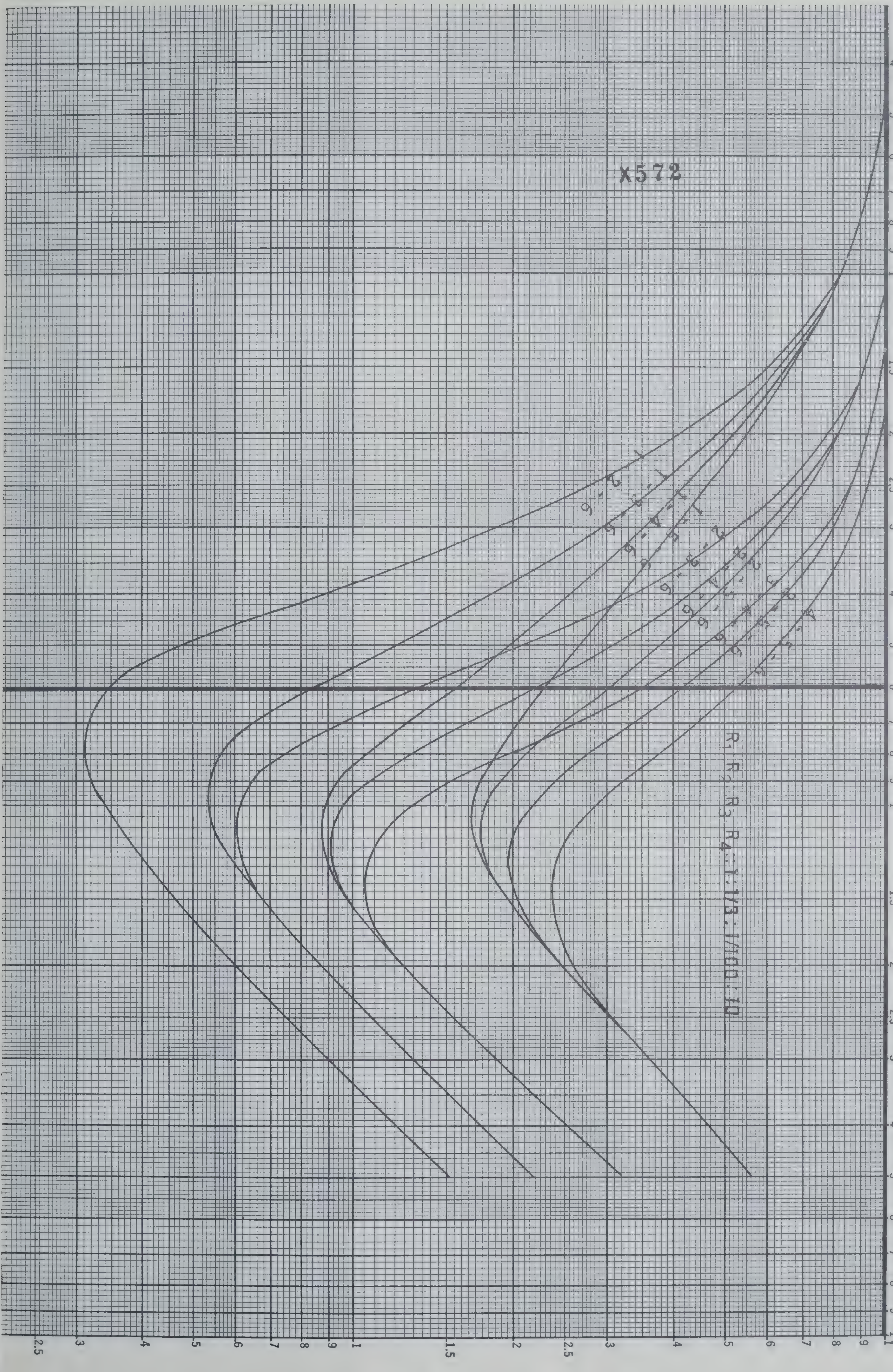

X 562
R1:R2:R3:R4::1:1/3:1/10:10
1-2-6
1-3-6
2-3-6
4-5-6

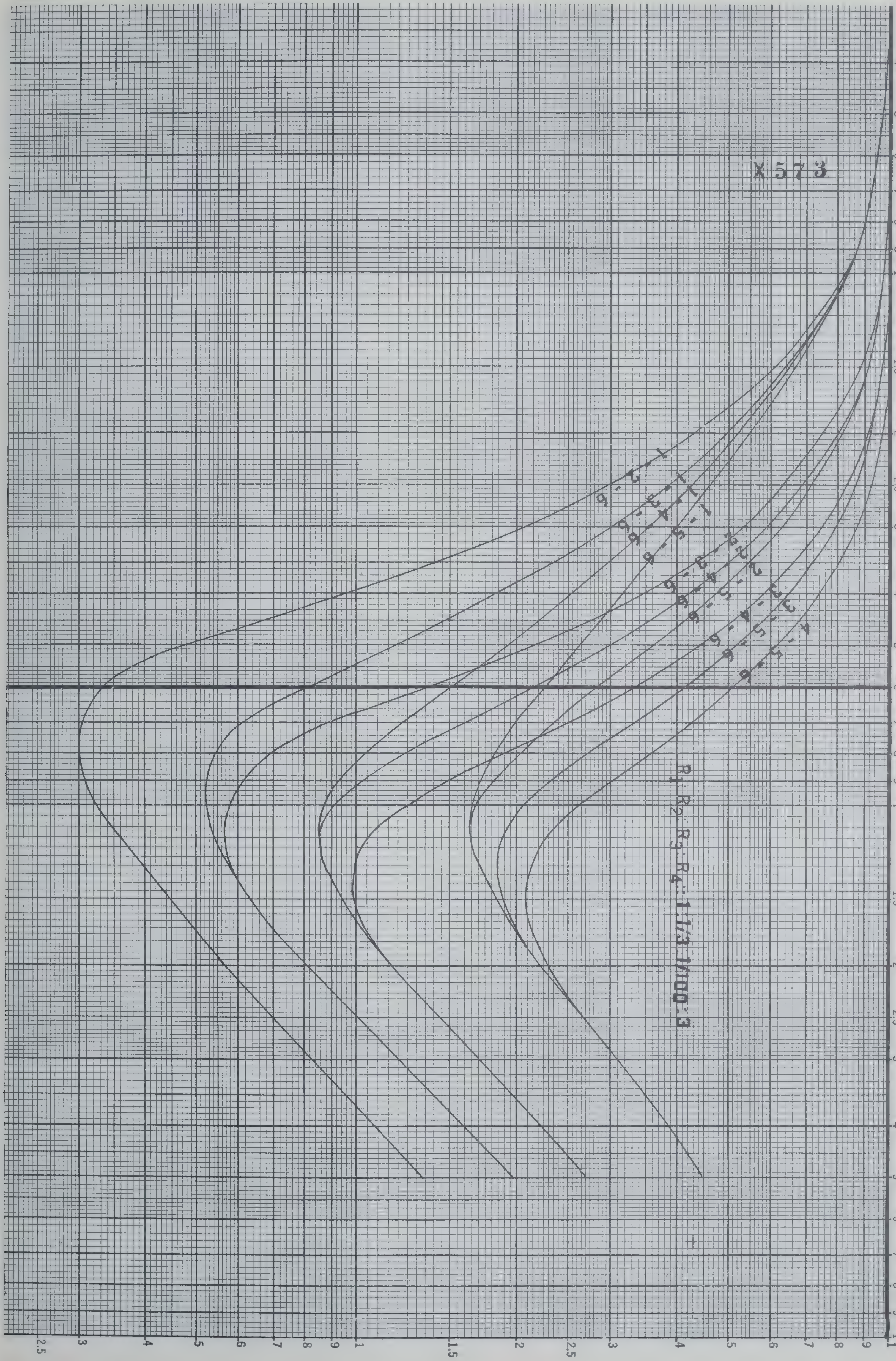

X 563
R1:R2:R3:R4::1:1/3:1/10:3

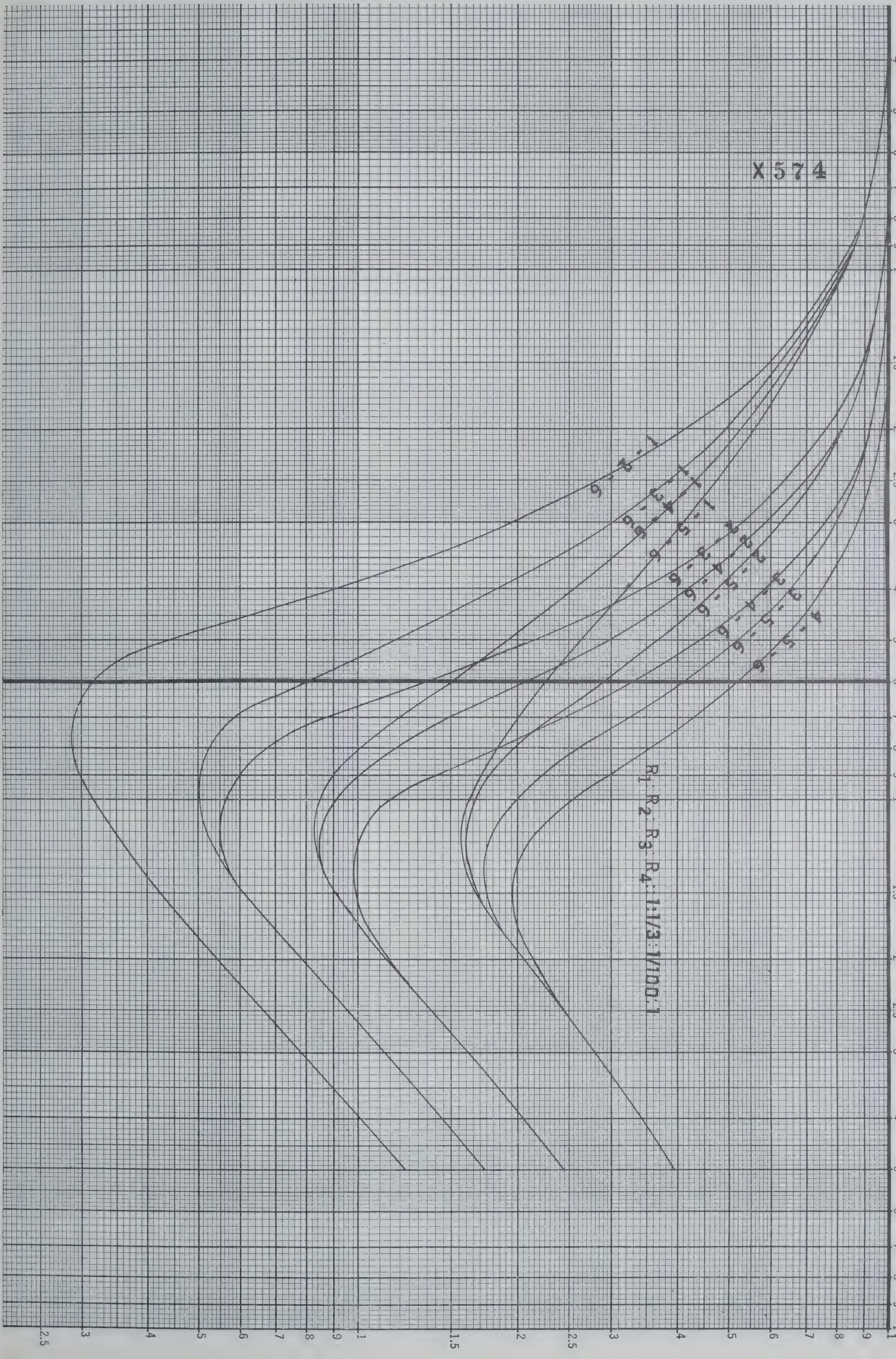

X564
R1:R2:R3:R4::1:1/3:1/10:1

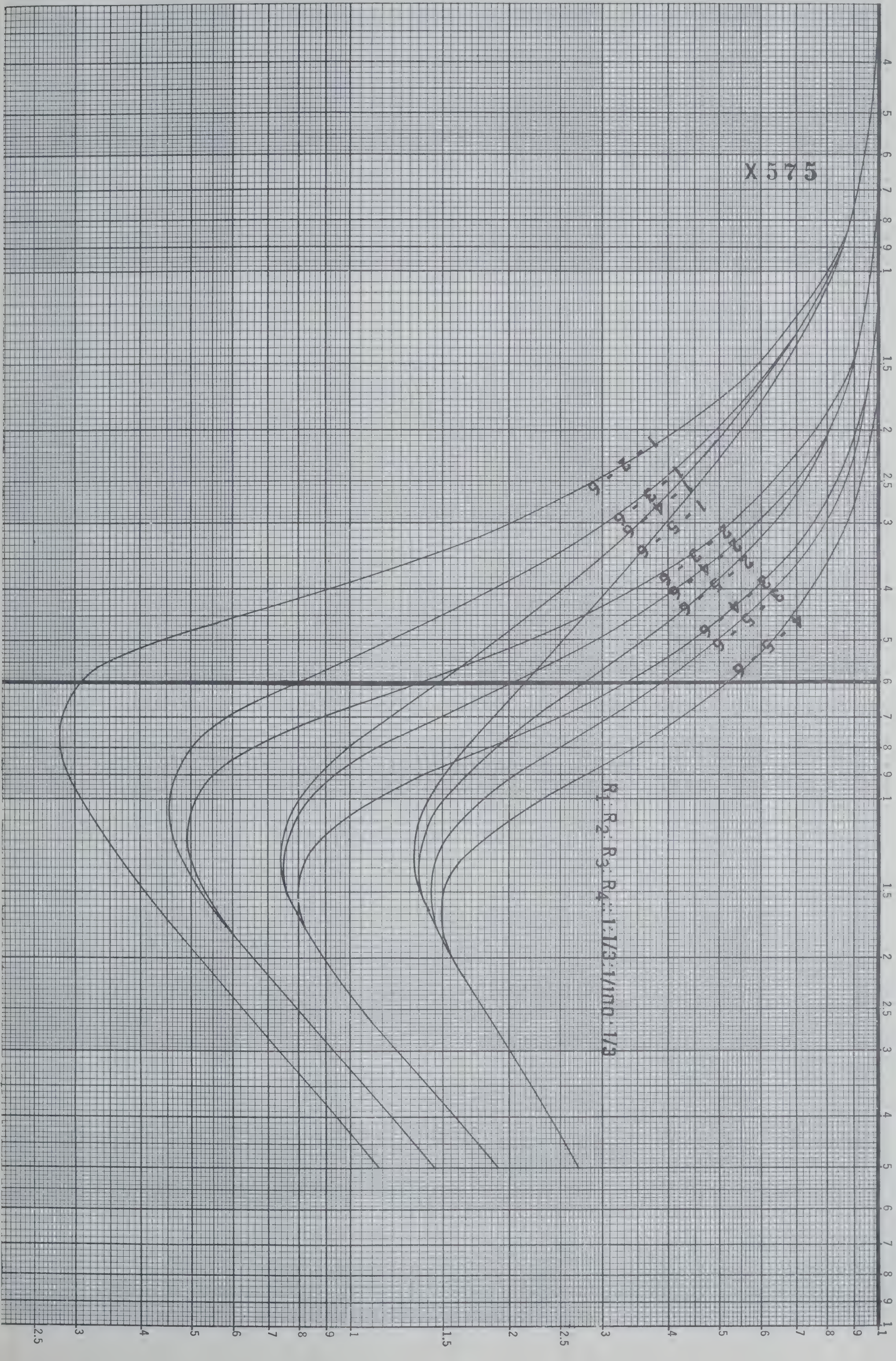

X 565
R1 R2 R3 R4 : 1 : 1/3 : 1/10 : 1/3


X 567
$R_1:R_2:R_3:R_4::1:1/3:1/10:1/100$


X572
R1 R2 R3 R4::1:1/3:1/100:10


X 5 7 3
R1:R2:R3:R4::1:1/3:1/100:3


X 574
R1 R2 R3 R4: 1:1/3:1/100:1


X 575
R1:R2:R3:R4::1:1/3:1/100:1/3

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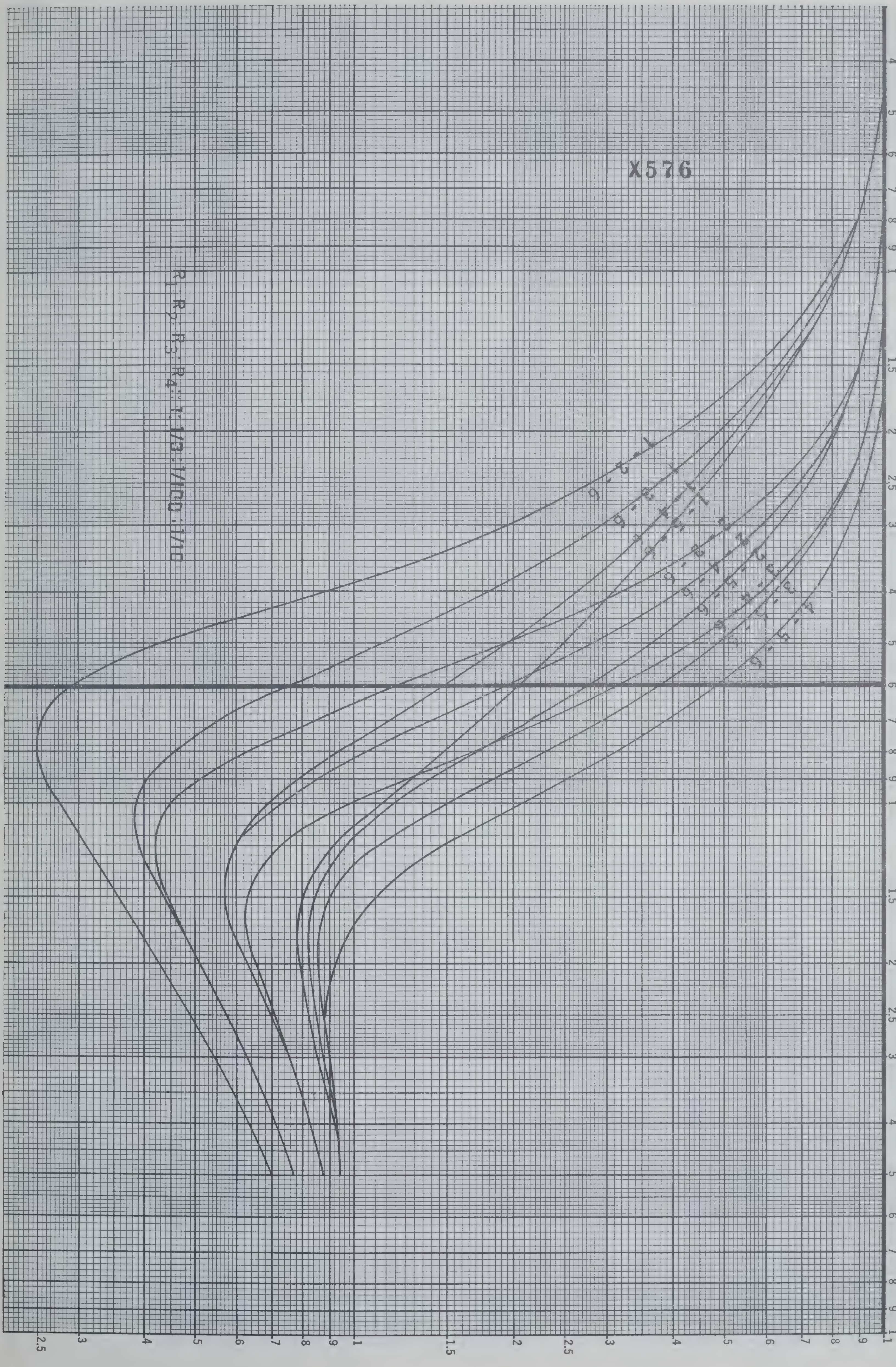
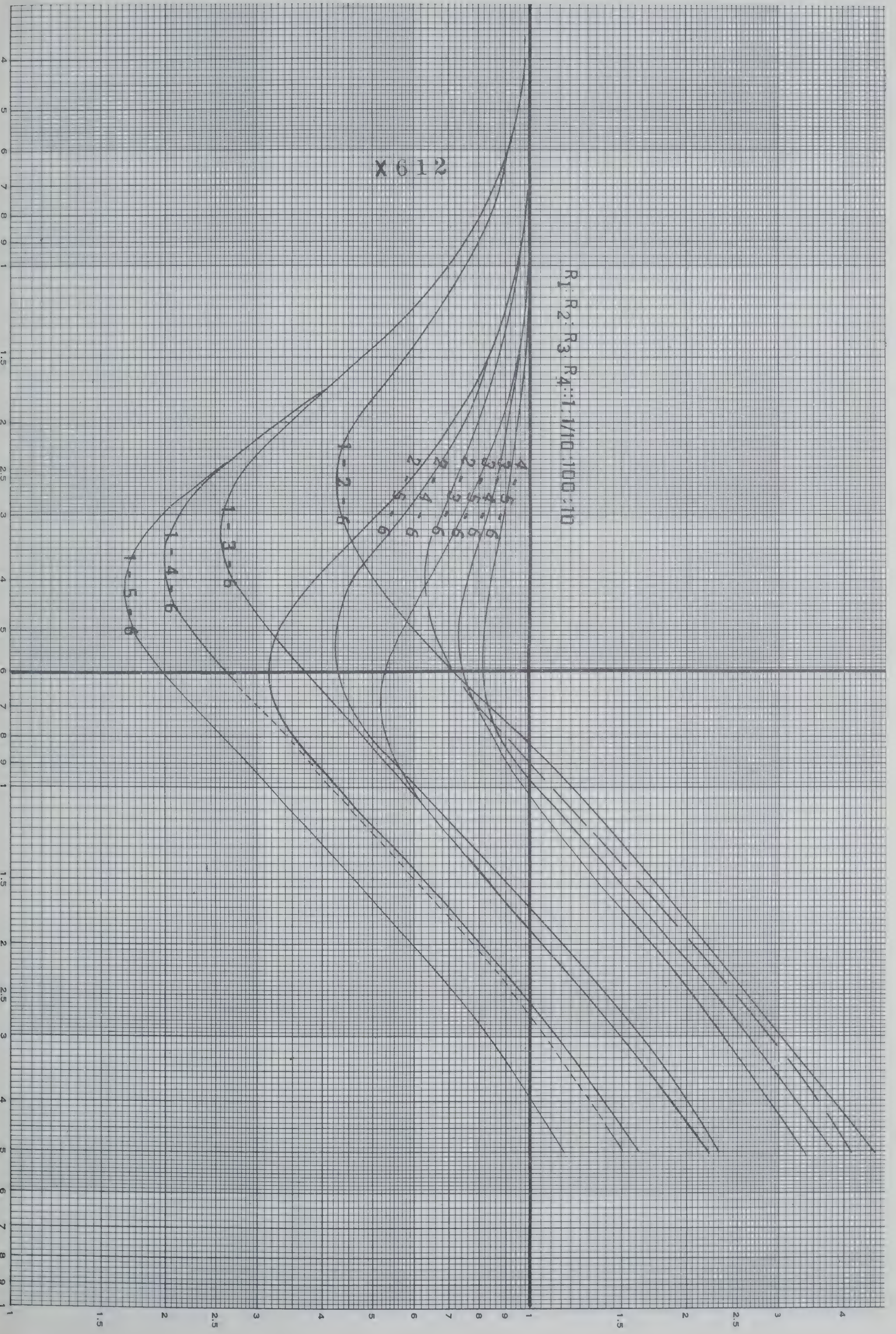
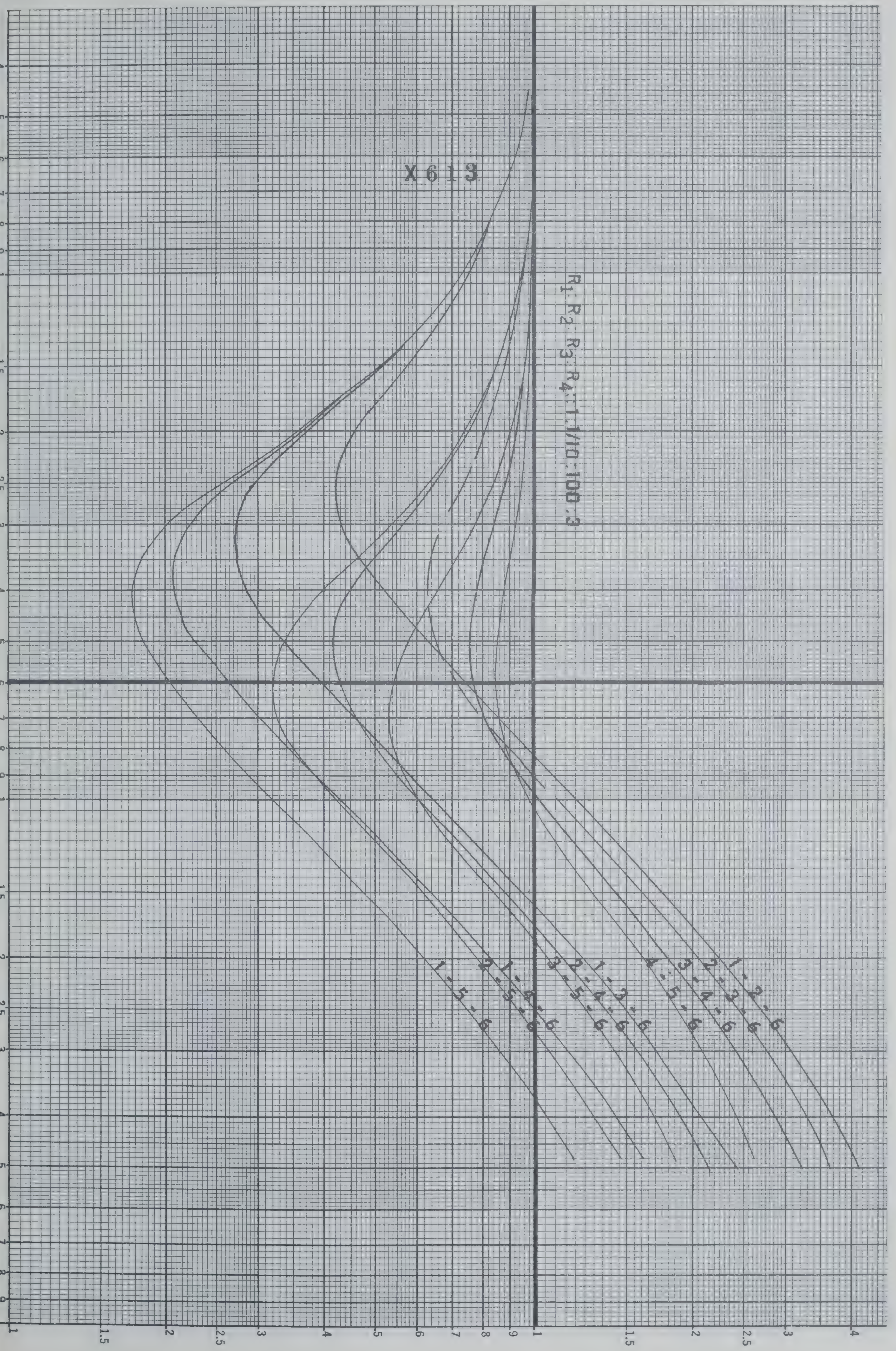



X612
R1:R2:R3:R4::1:1/10:100:10
1-2-6
1-3-6
1-4-6
1-5-6


X 613
R1: R2: R3: R4::1:1/10:100:3
1-2-6
2-3-6
3-4-6
4-5-6
1-3-6
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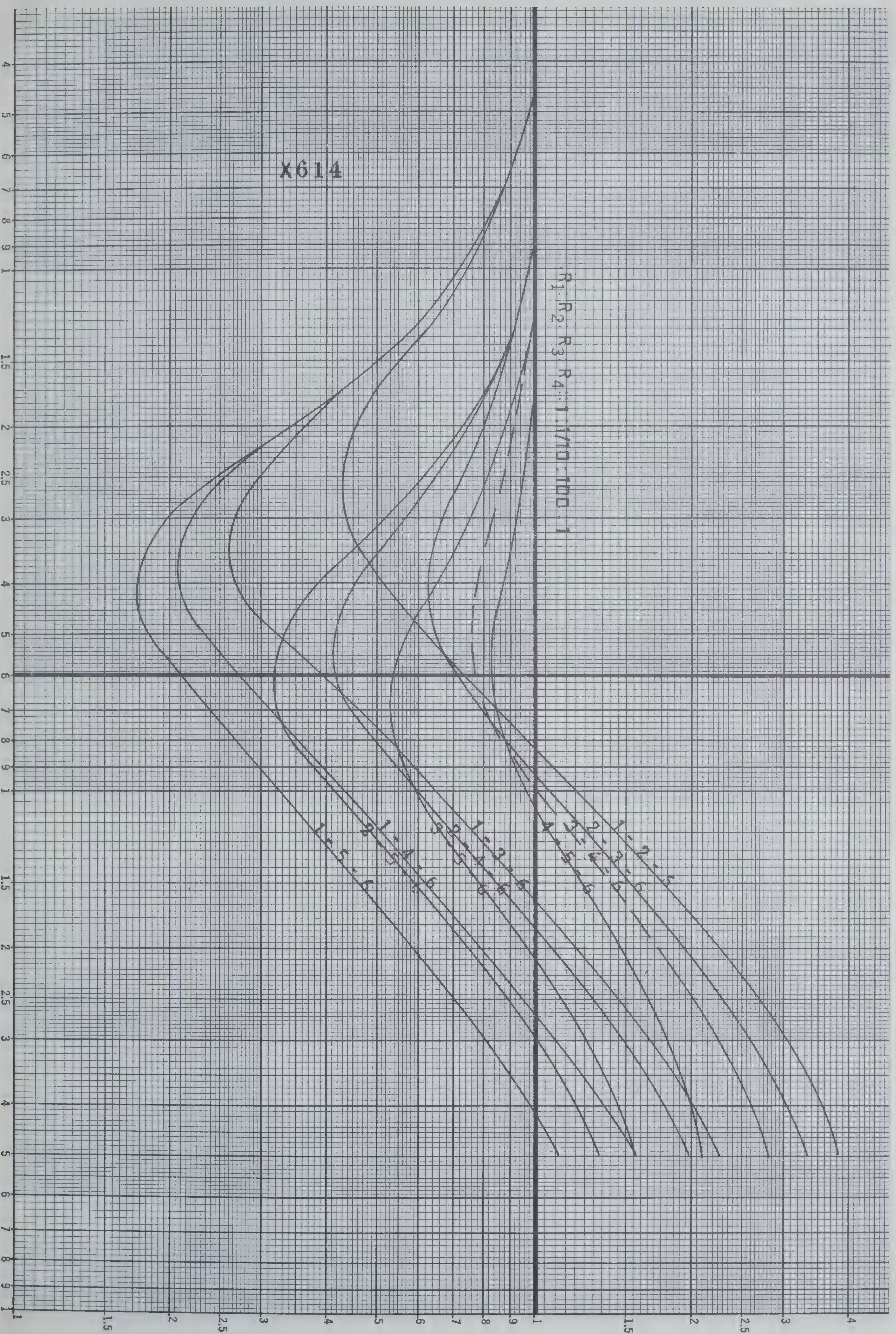
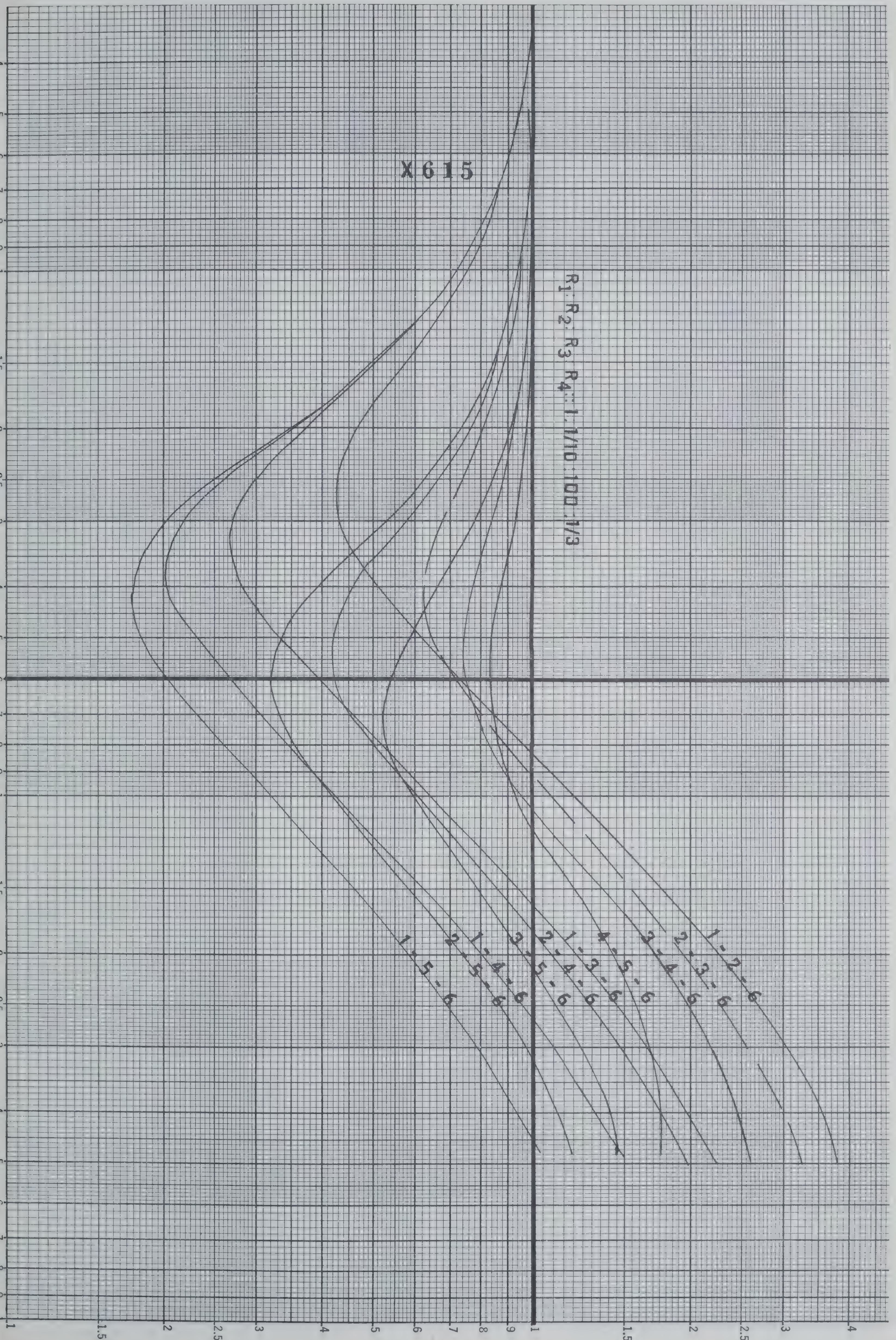
1-4-6
2-5-6
1-5-6


X614
R1:R2:R3 R4::1:1/10:100:1
1-5-6
1-4-6
1-3-6
4-5-6


X 615
R1:R2:R3:R4::1:1/10:100:1/3
1-2-6
2-3-6
3-4-6
4-5-6
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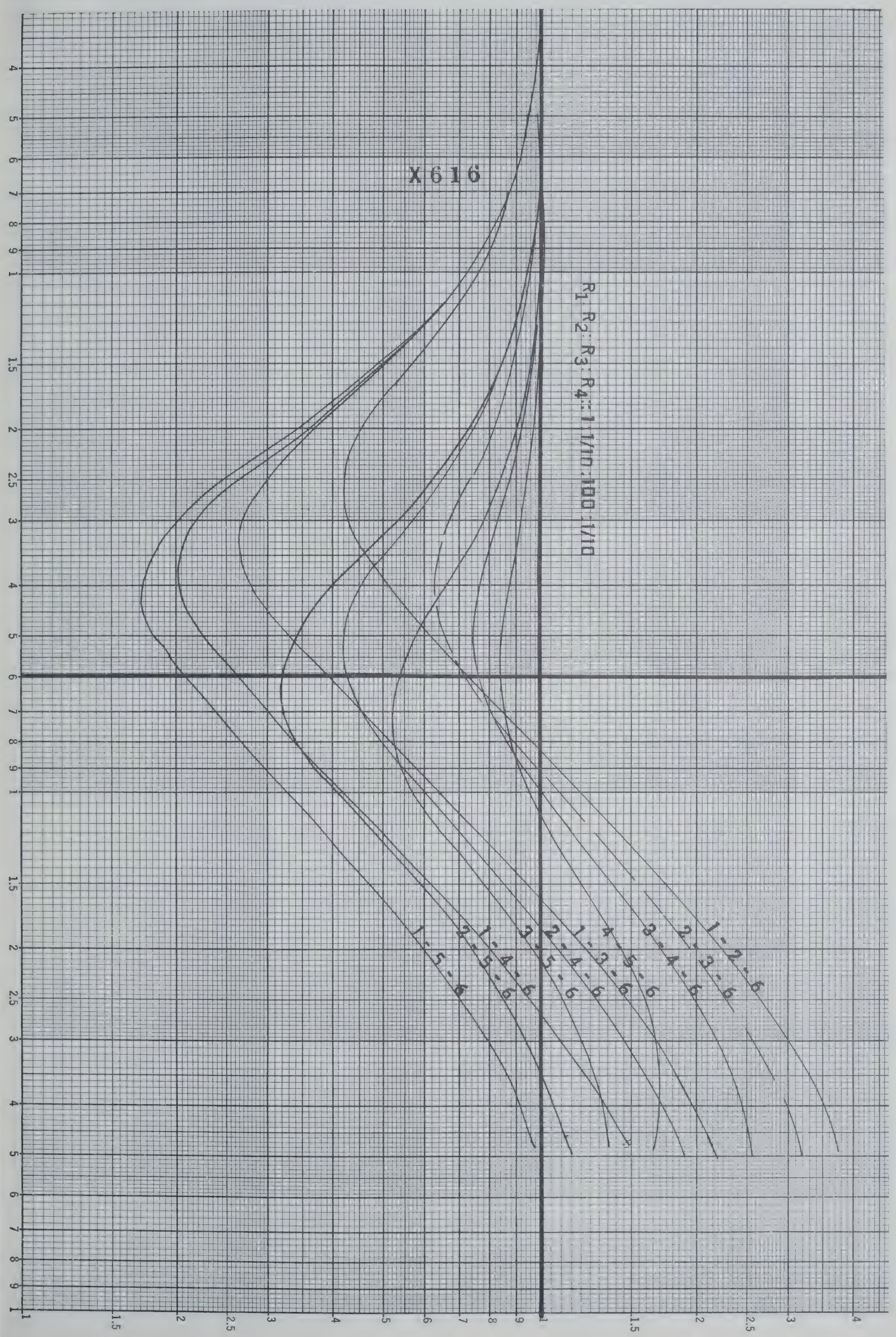
1-4-6
2-5-6
1-5-6


X616
R1:R2:R3:R4::1:1/10:100:1/10
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3-4-6
4-5-6
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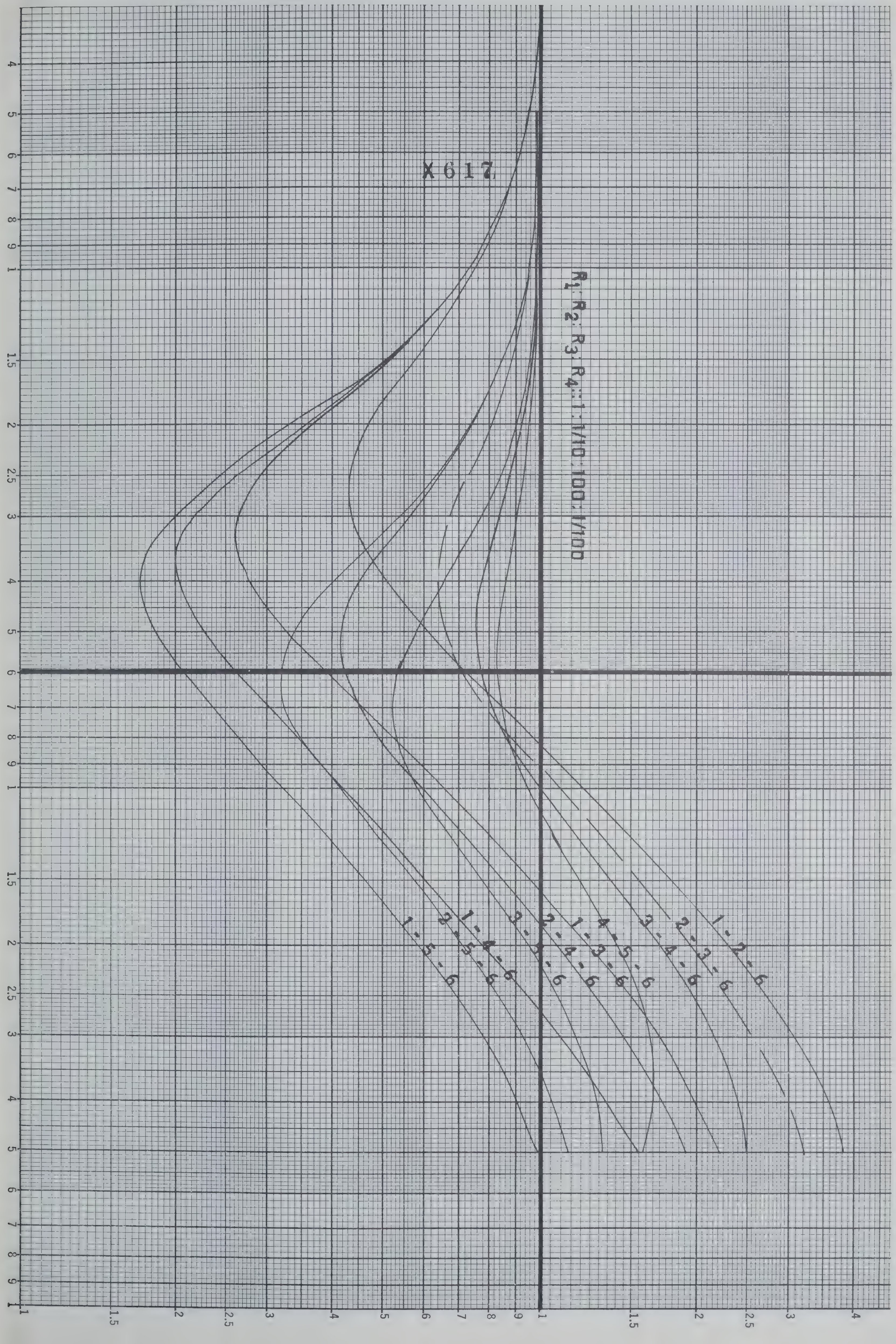
1-4-6
2-5-6
1-5-6


X 617
R1:R2:R3:R4::1:1/10:100:1/100
1-5-6
2-5-6
1-4-6
3-5-6
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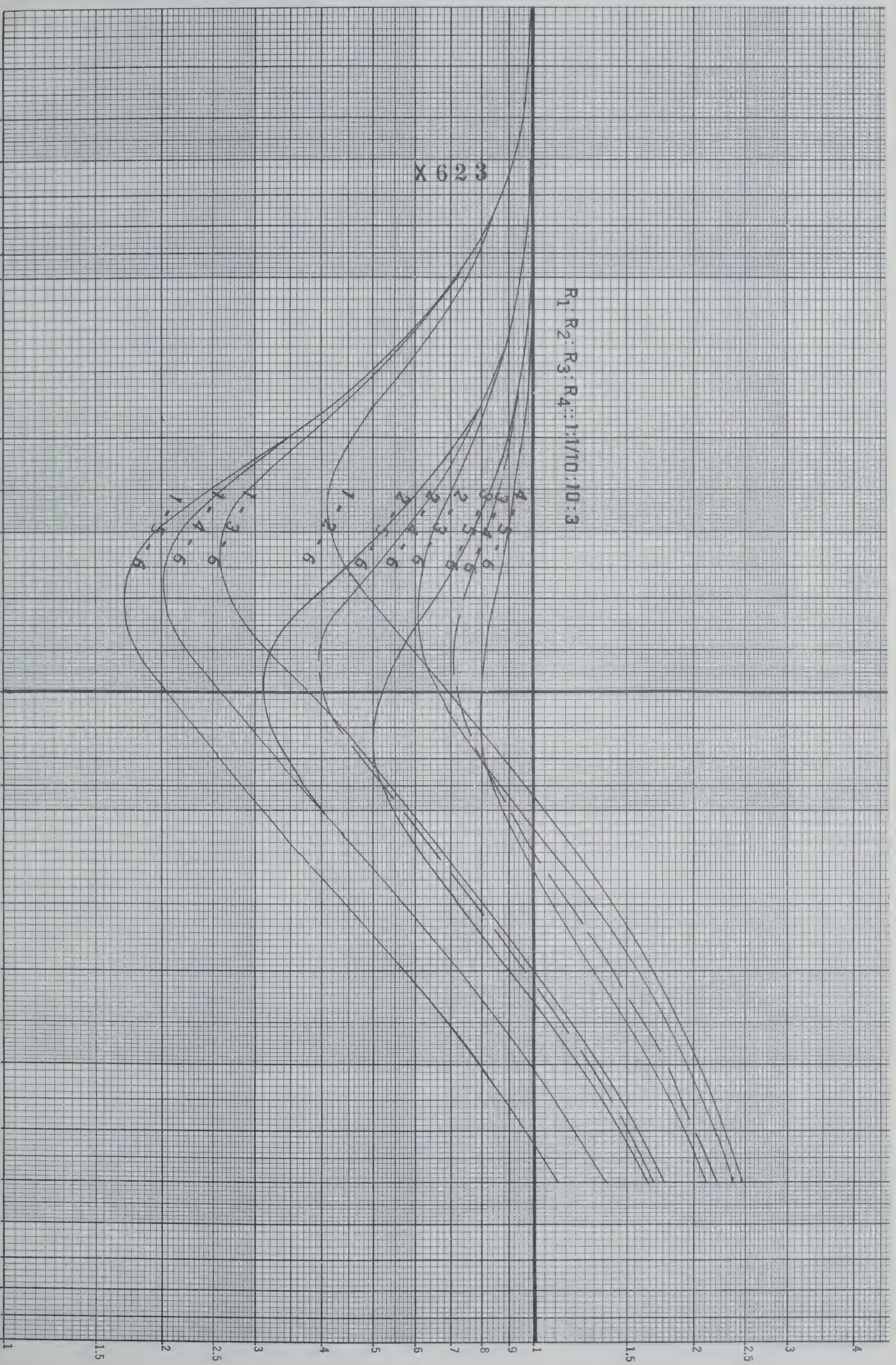
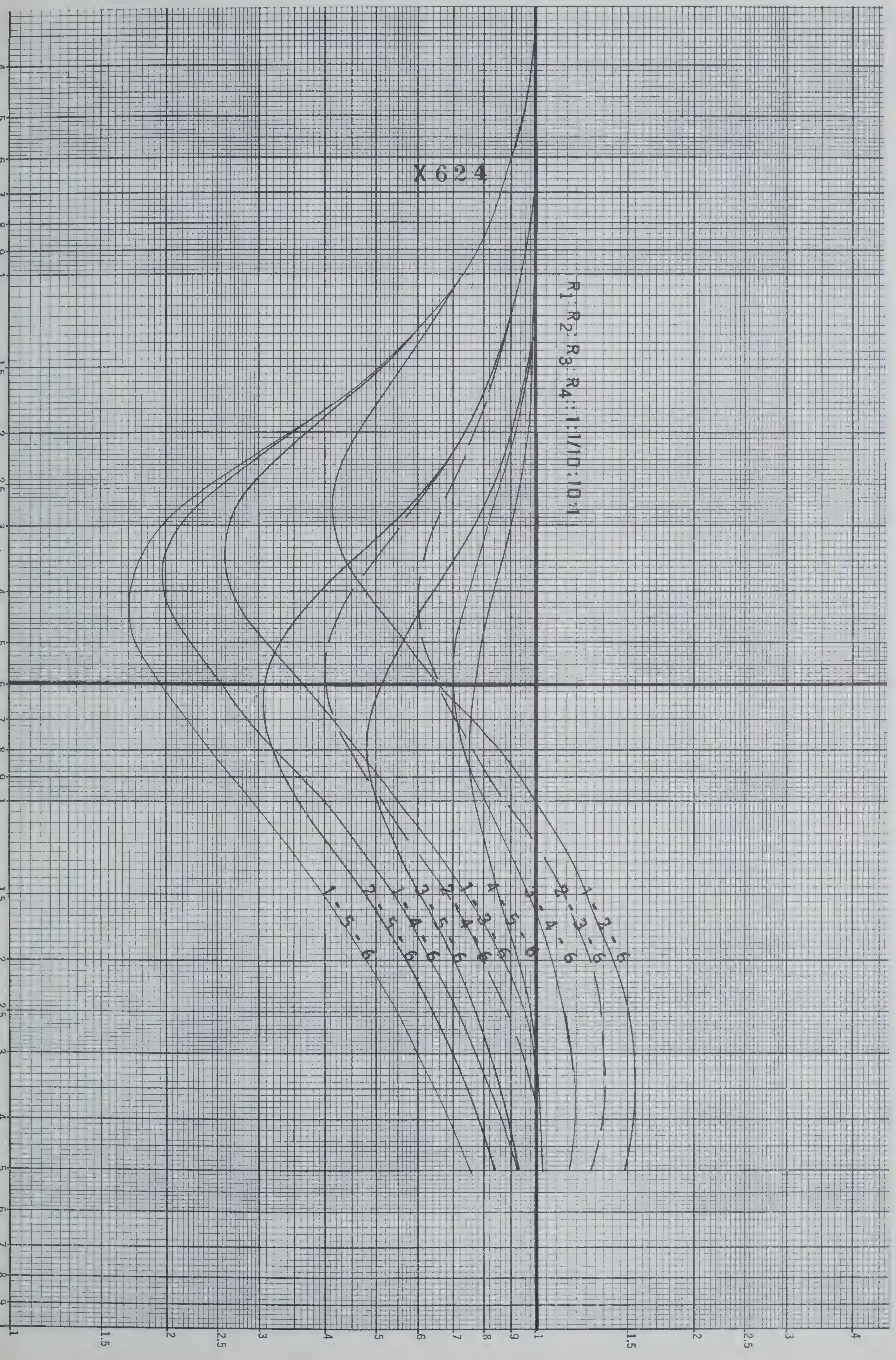
3-4-6
2-3-6
1-2-6


X 6 2 3
R1:R2:R3:R4::1:1/10:10:3


X 624
R1: R2: R3: R4 :: 1:1/10:10:1
1-5-6
2-5-6
1-4-6
3-5-6
2-4-6
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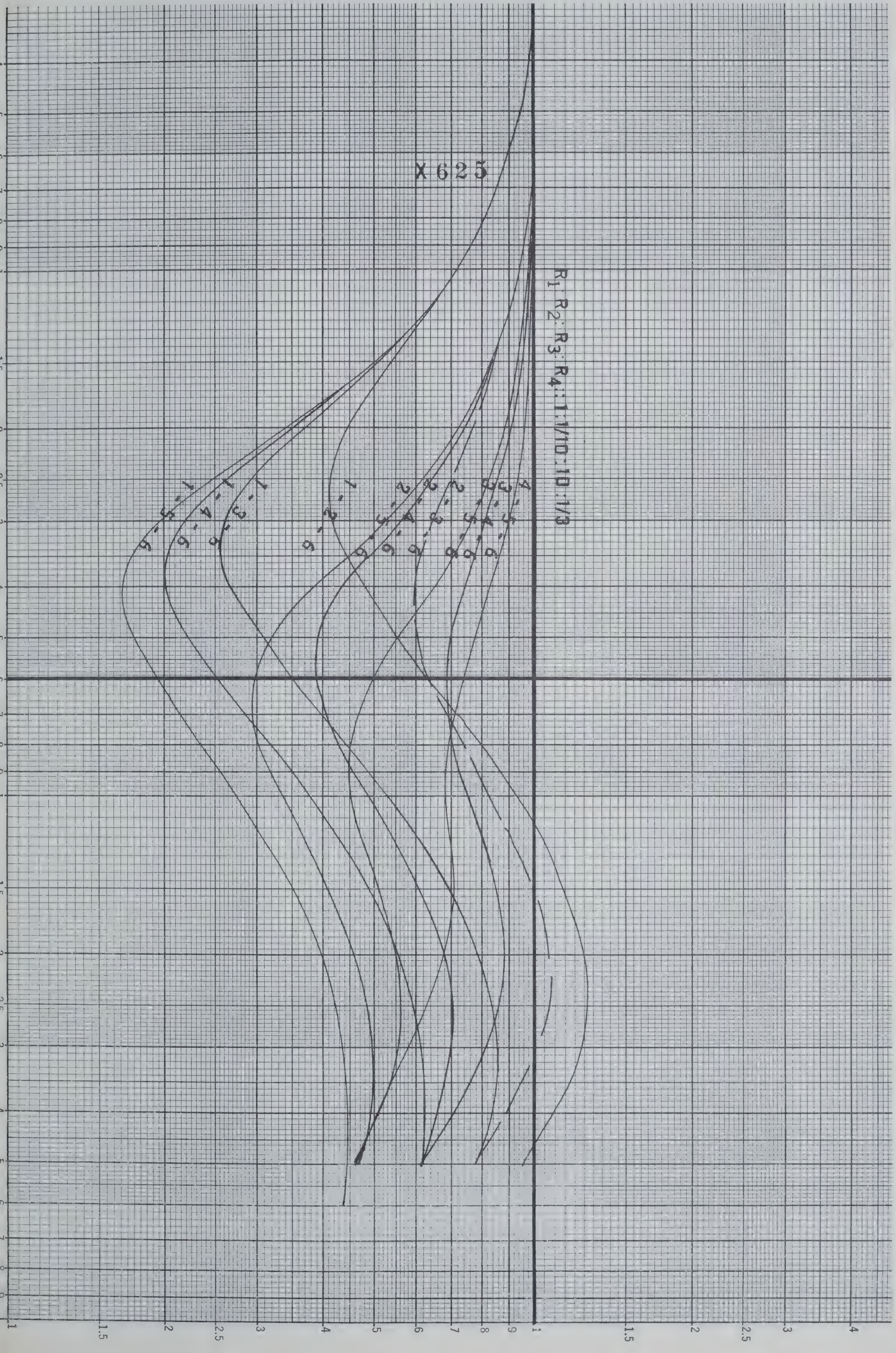
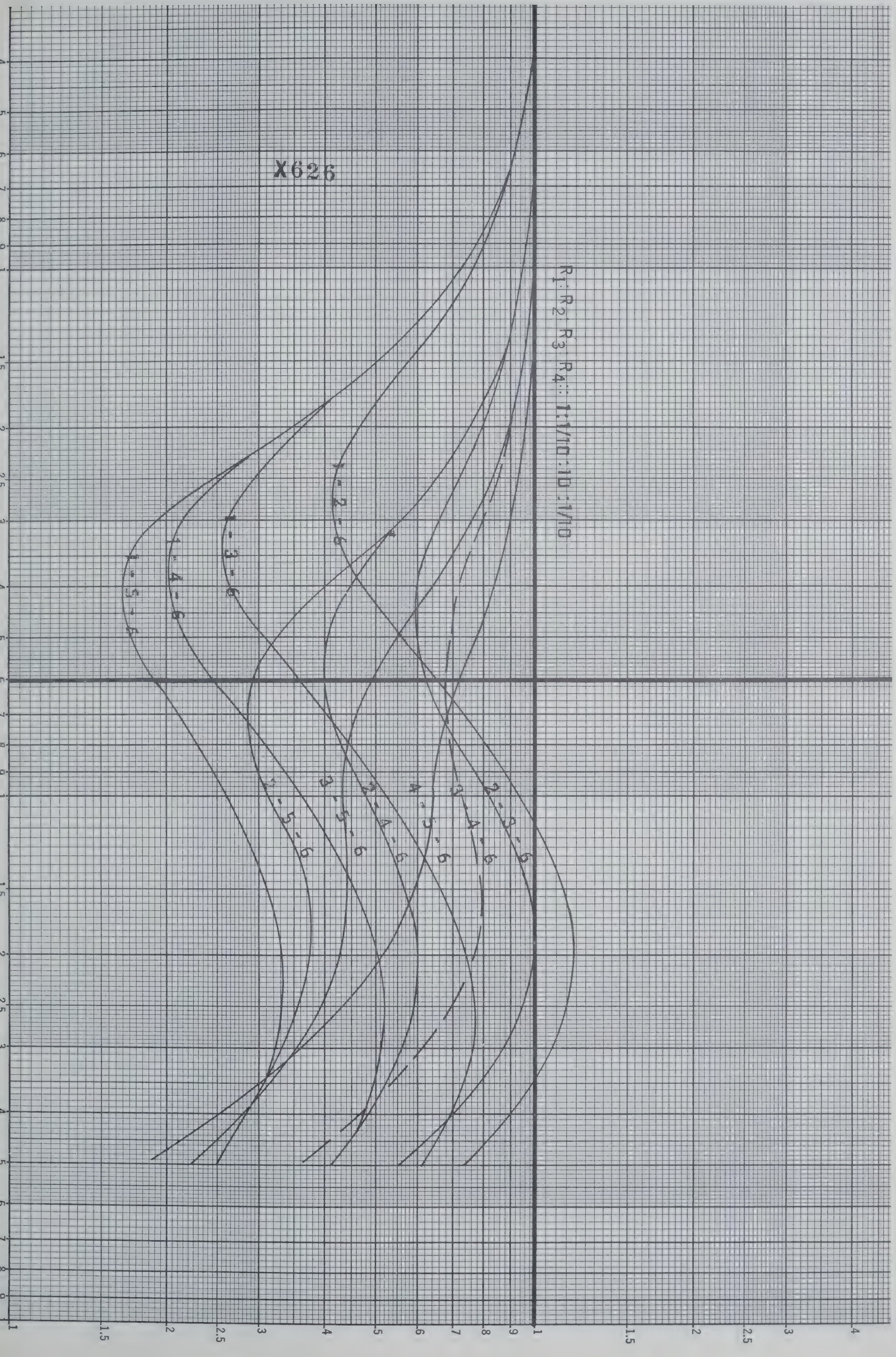
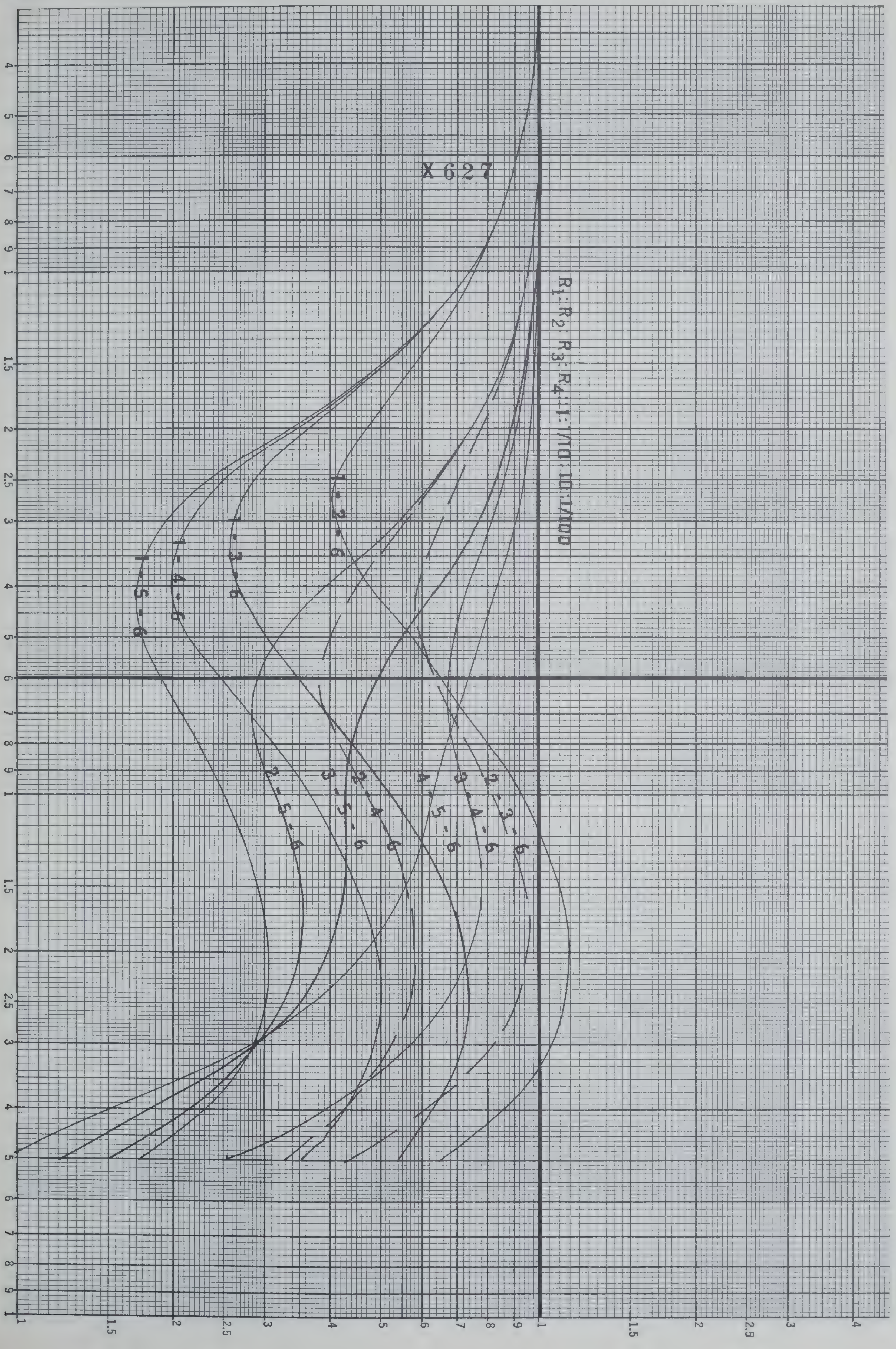
3-4-6
2-3-6
1-2-6


X 625
$R_1:R_2:R_3:R_4::1:1/10:10:1/3$


X626
R1:R2:R3:R4:: 1:1/10:10:1/10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
3-5-6
2-4-6
4-5-6
3-4-6
2-3-6


X 627
R_1:R_2:R_3:R_4::1:1/10:10:1/100
1-2-6
1-3-6
1-4-6
1-5-6
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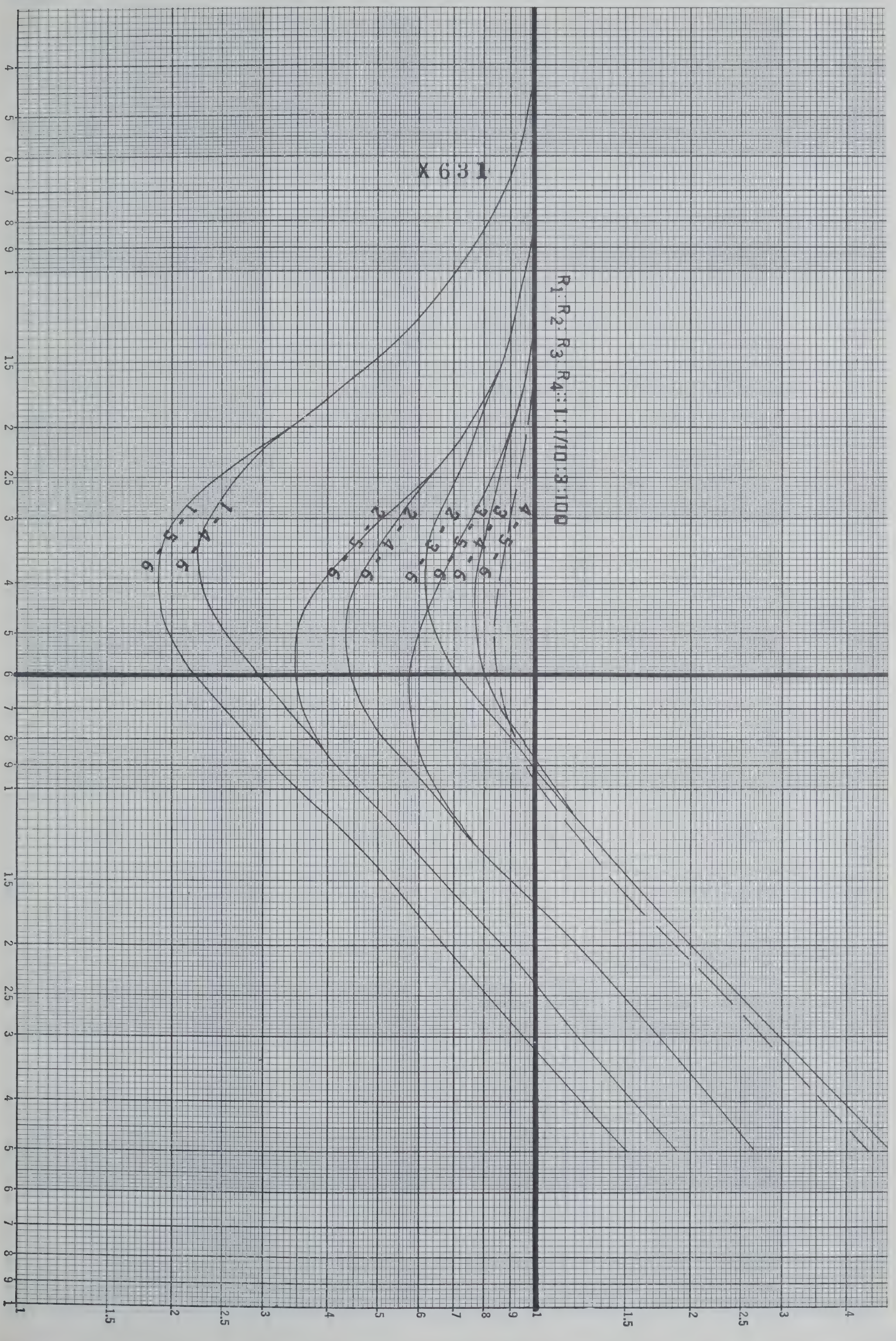
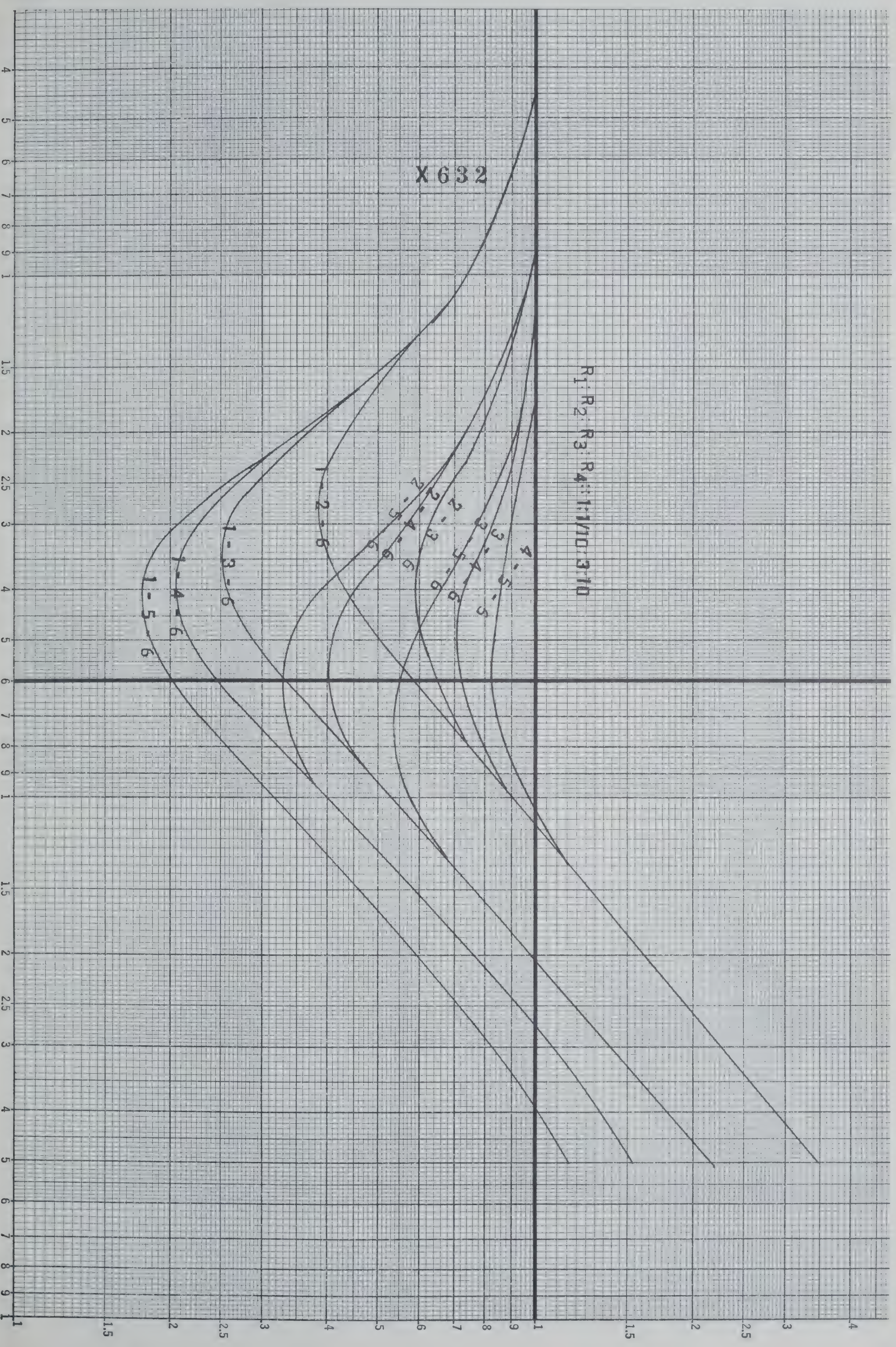
4-5-6
3-4-6
2-3-6


X 631
R1:R2:R3:R4::1:1/10:3:100


X 632
R1: R2: R3: R4::1:1/10:3:10
1-2-6
1-3-6
1-4-6
1-5-6

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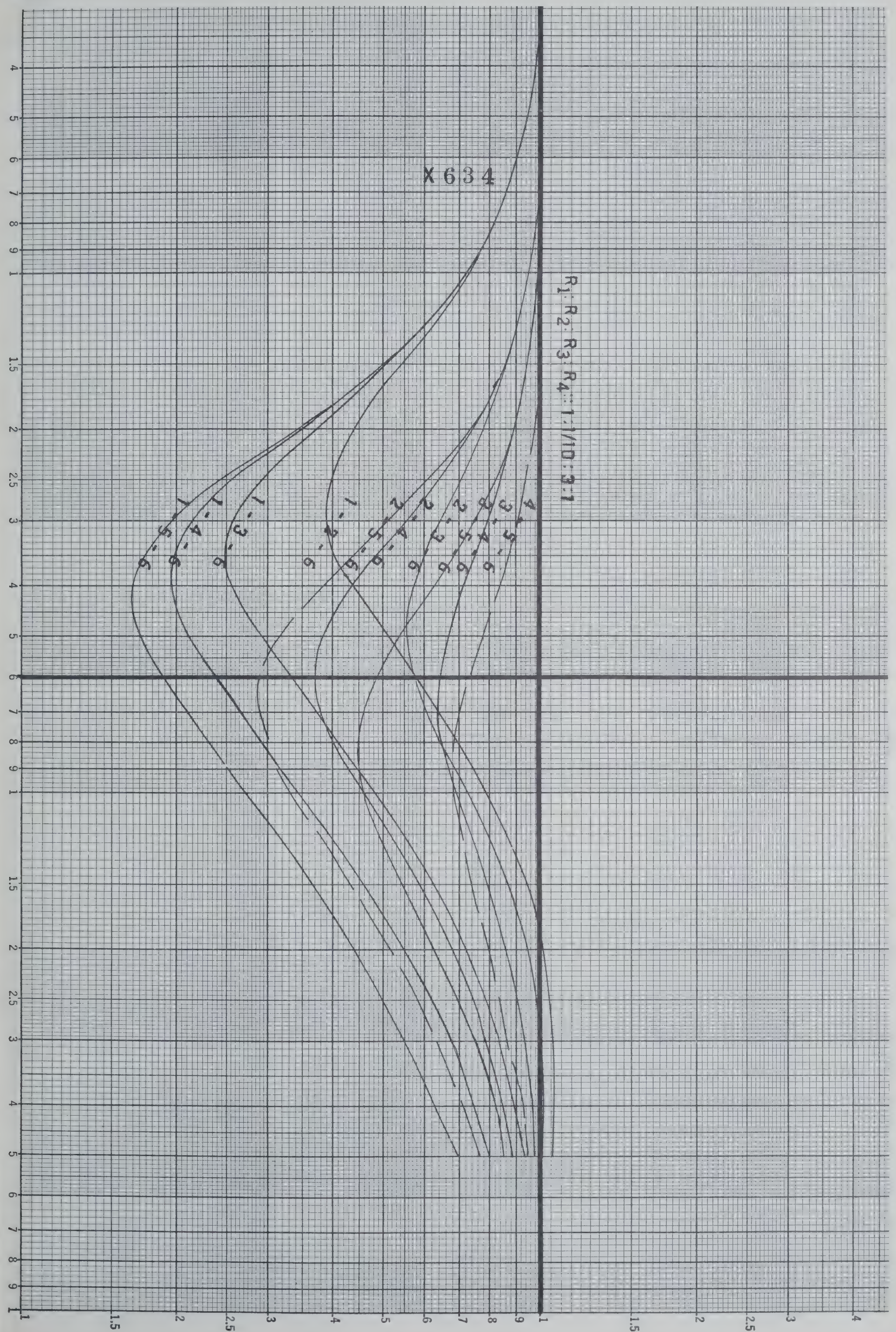
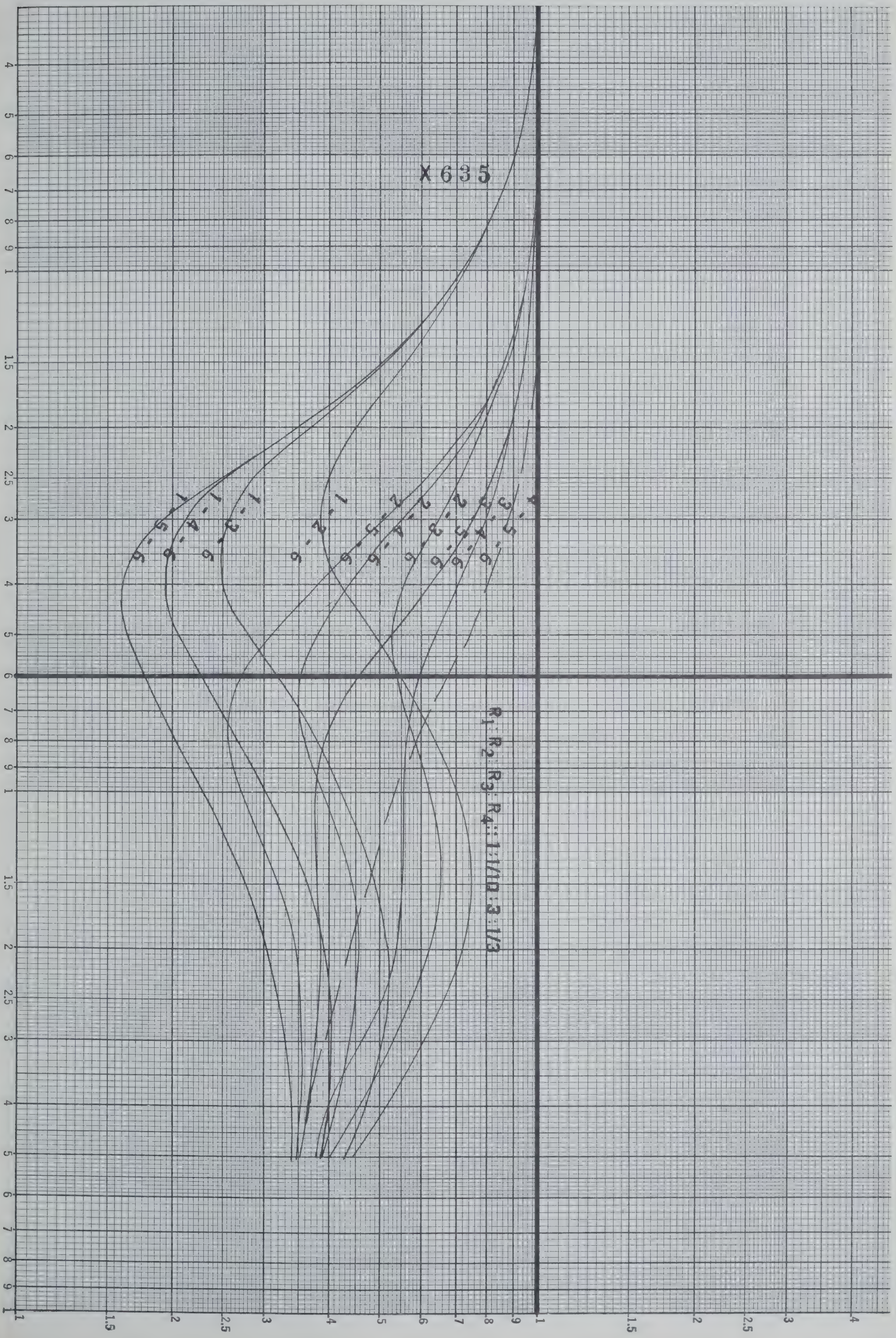
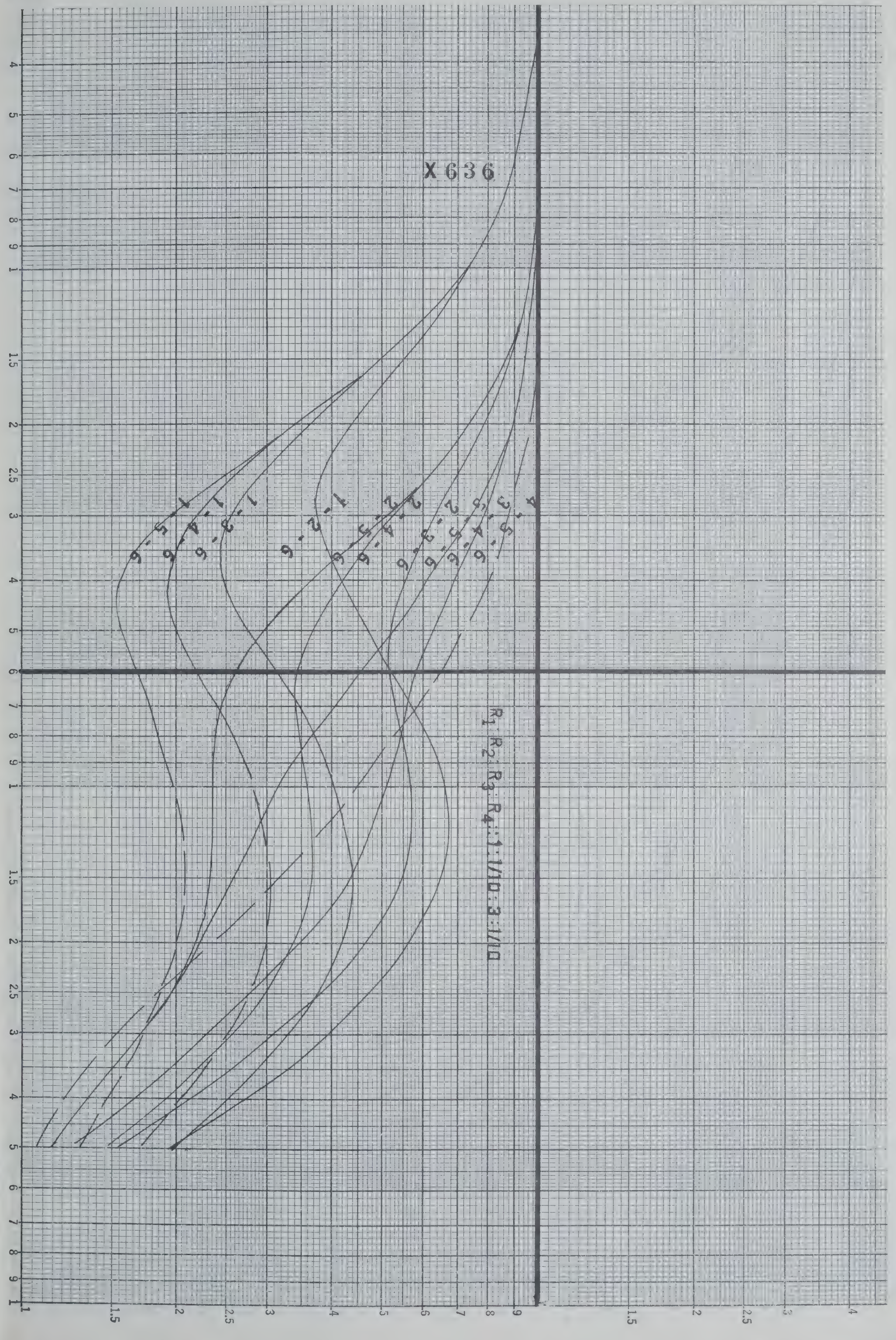
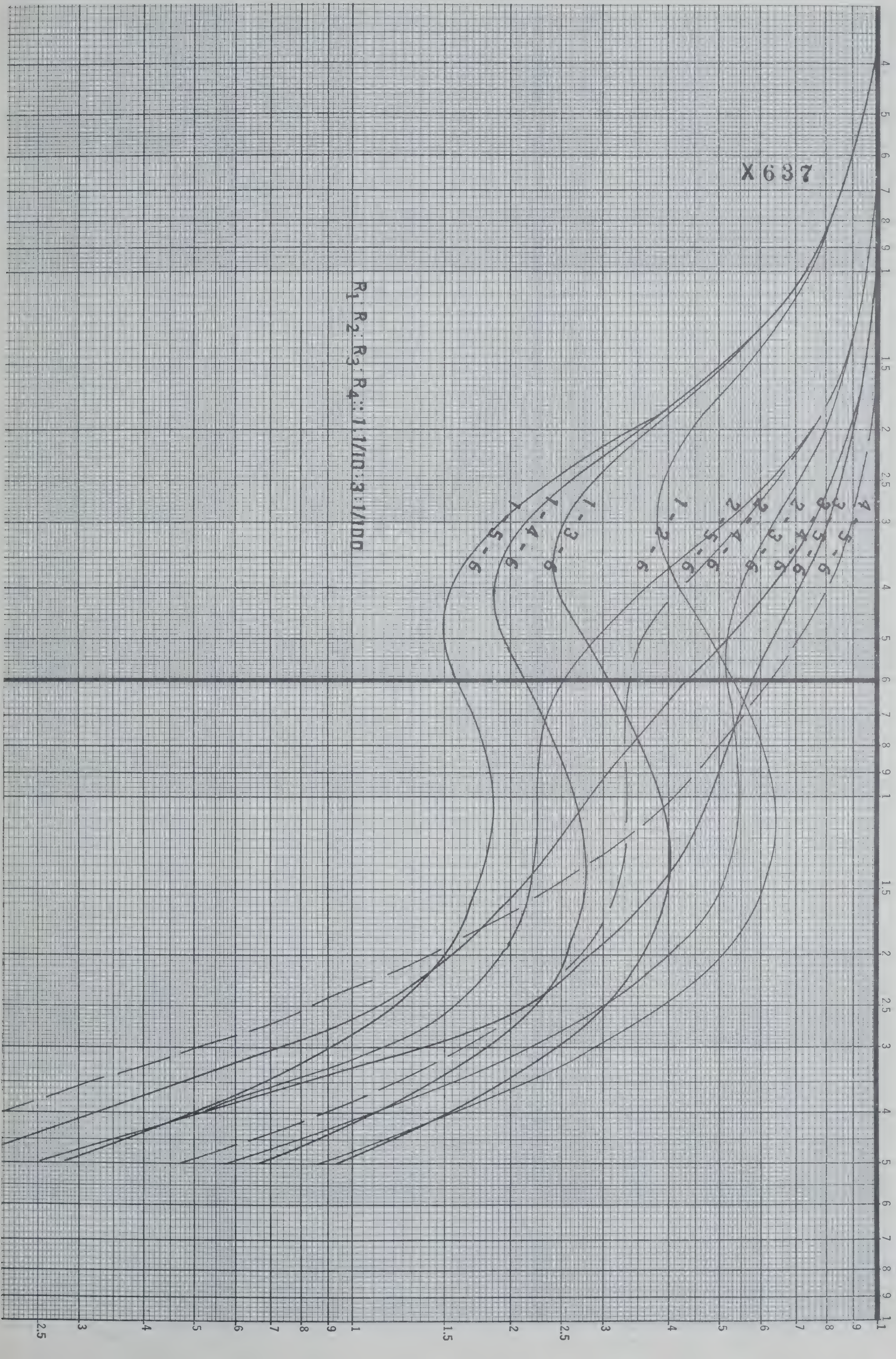
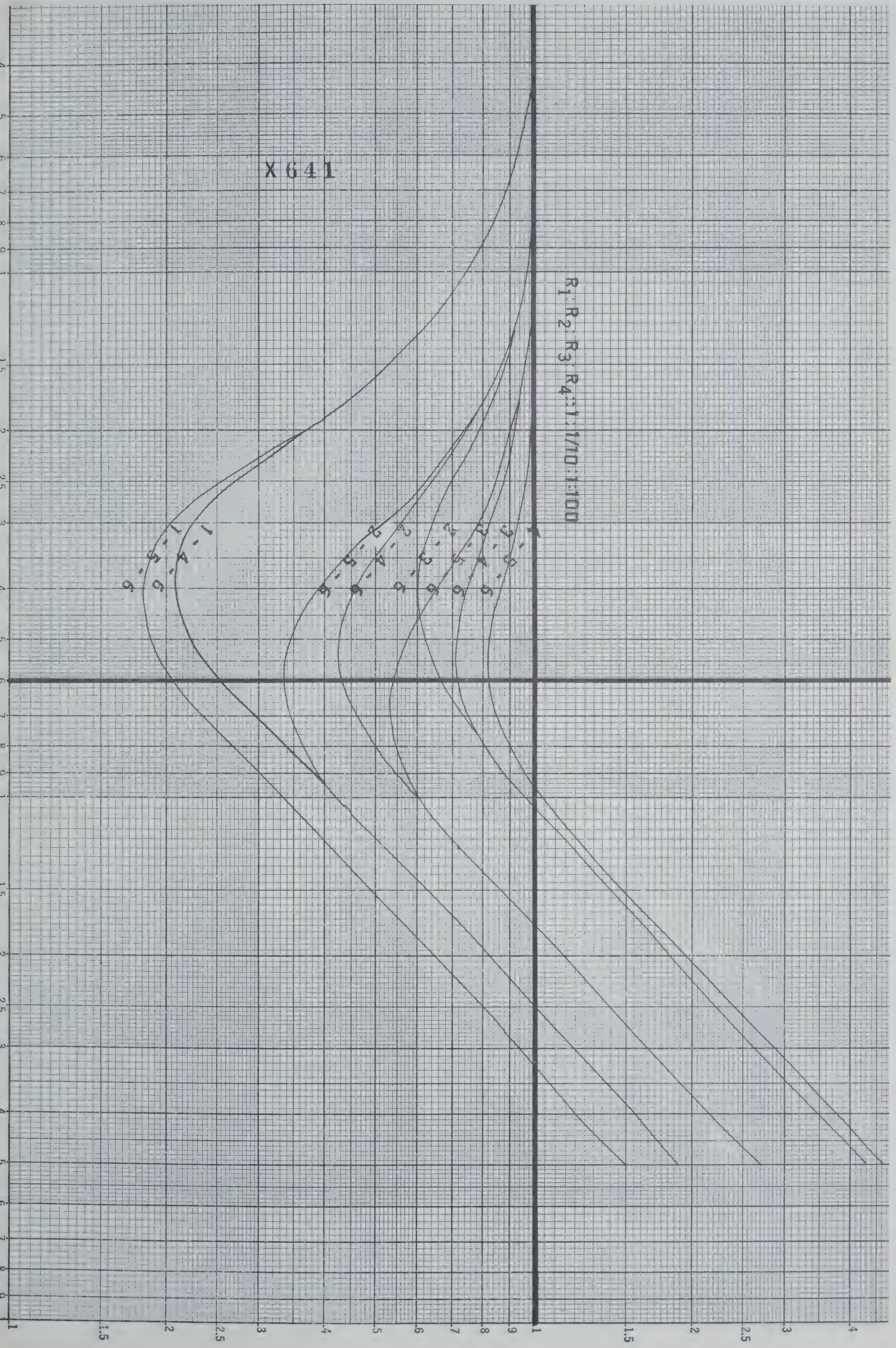
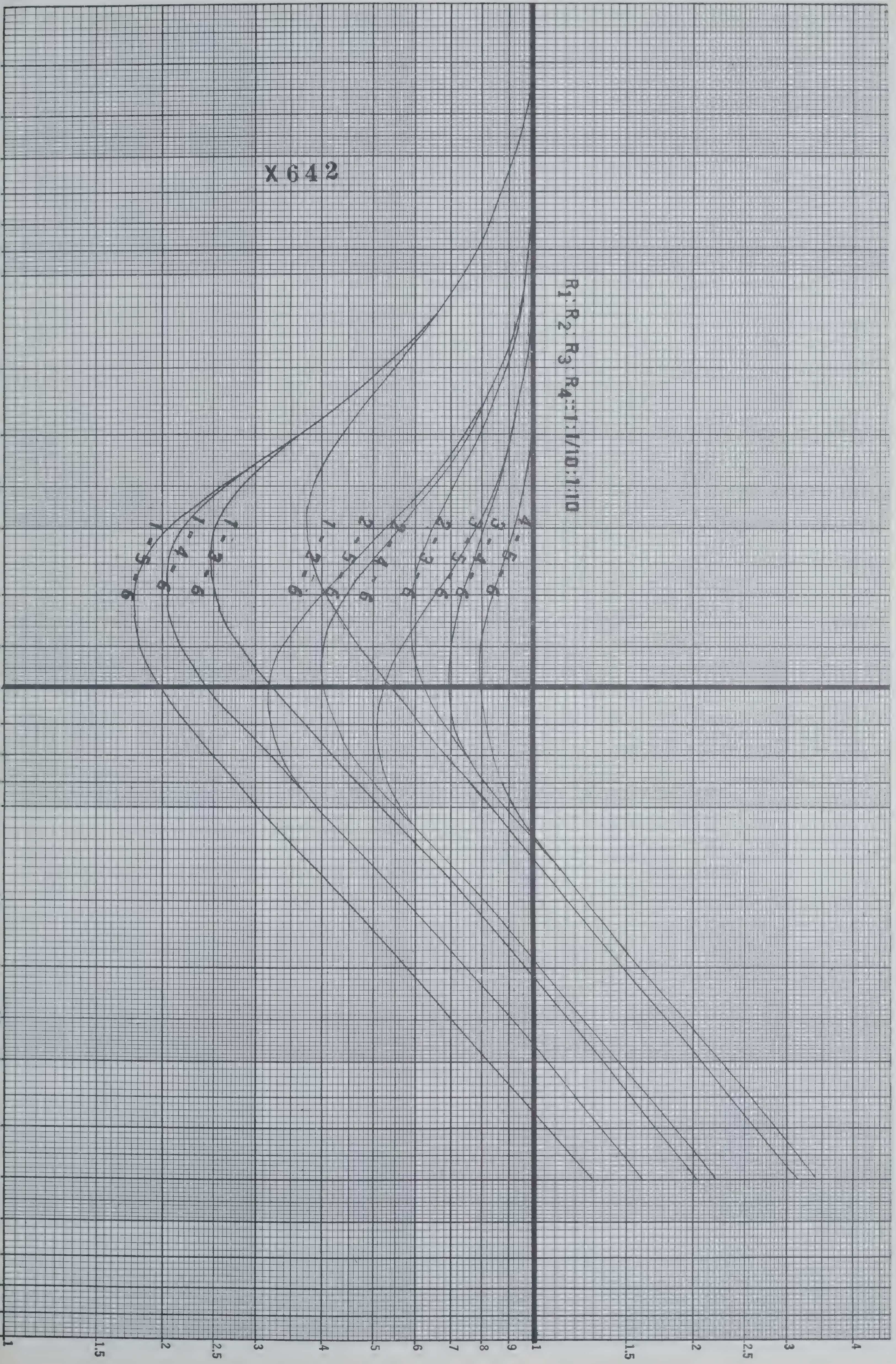



X 635
R1:R2:R3:R4::1:1/10:3:1/3


X 636
R1:R2:R3:R4::1:1/10:3:1/10


X 637
R1:R2:R3:R4::1:1/10:3:1/100
1-5-6
1-4-6
1-3-6
1-2-6


X 641
R1:R2:R3:R4::1:1/10:1:100


X642
R1:R2:R3:R4::1:1/10:1:10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

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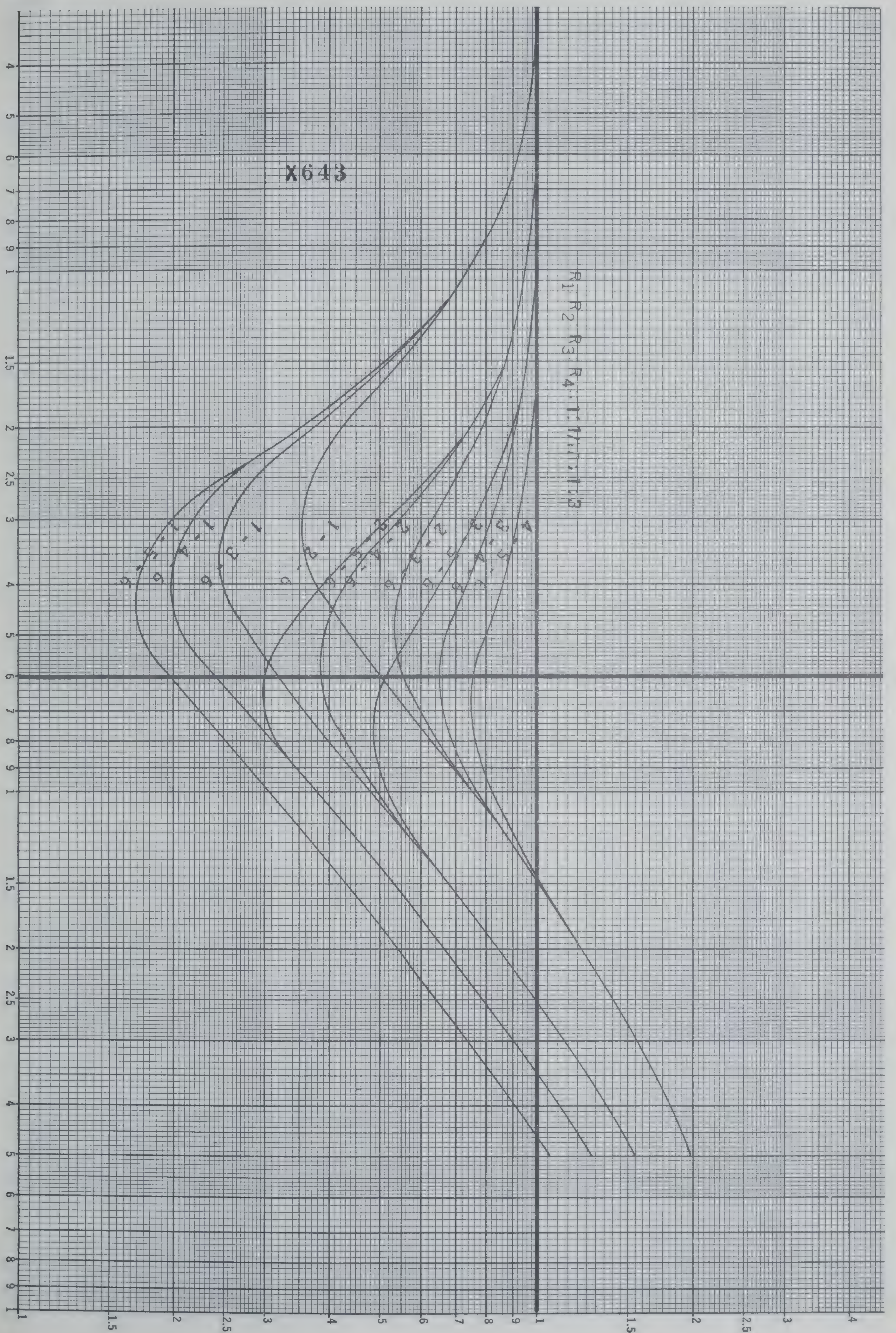
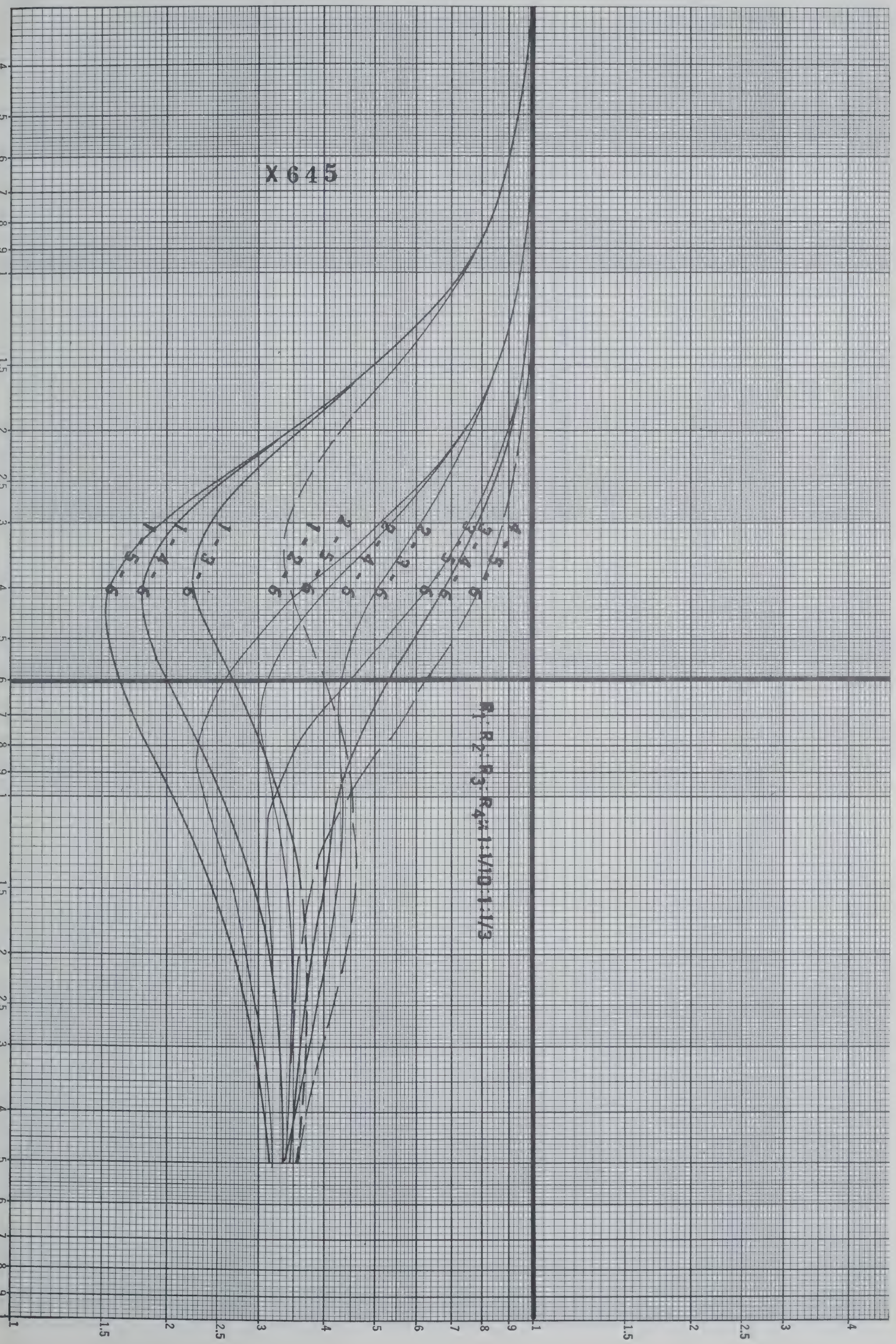
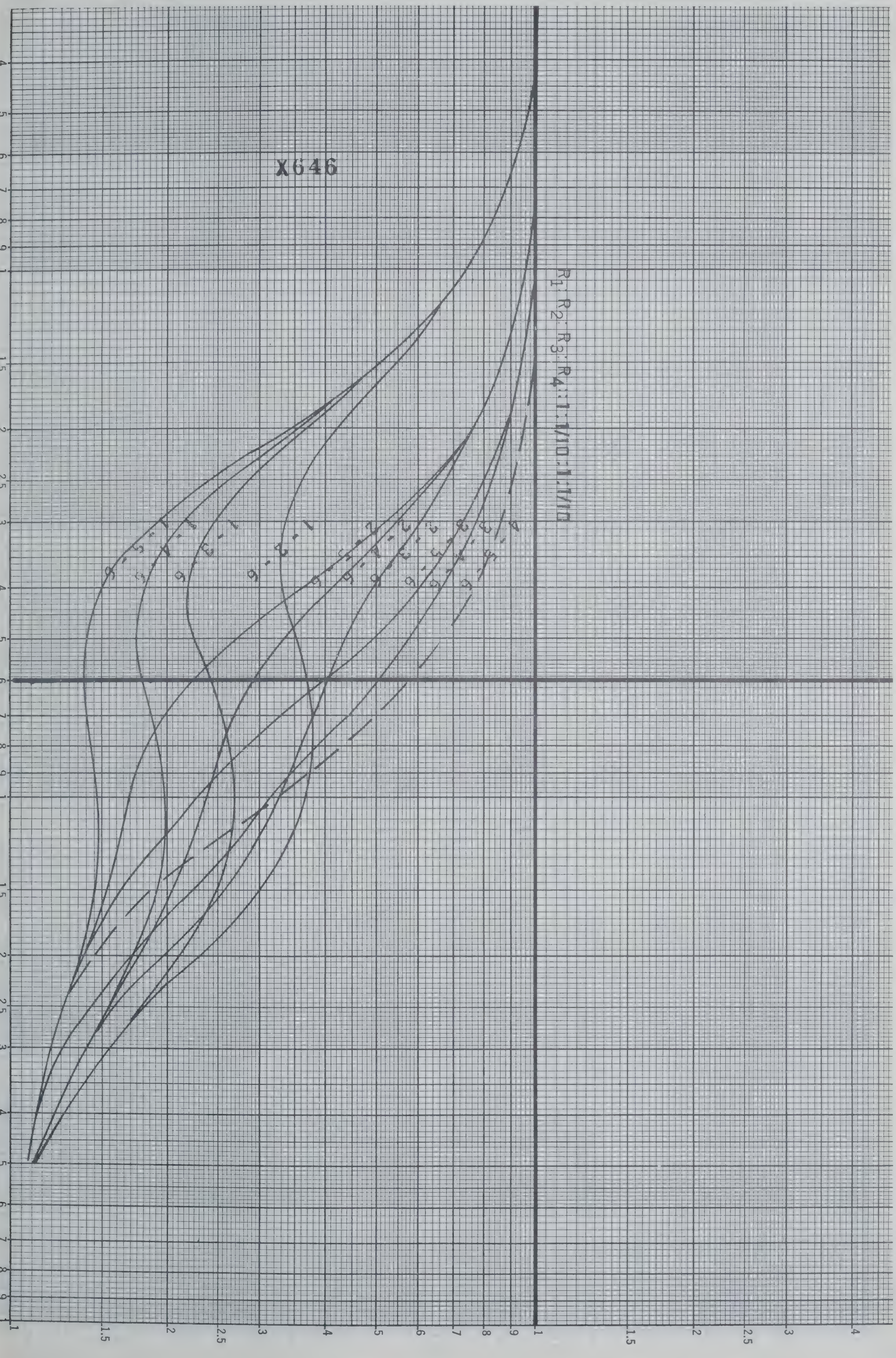
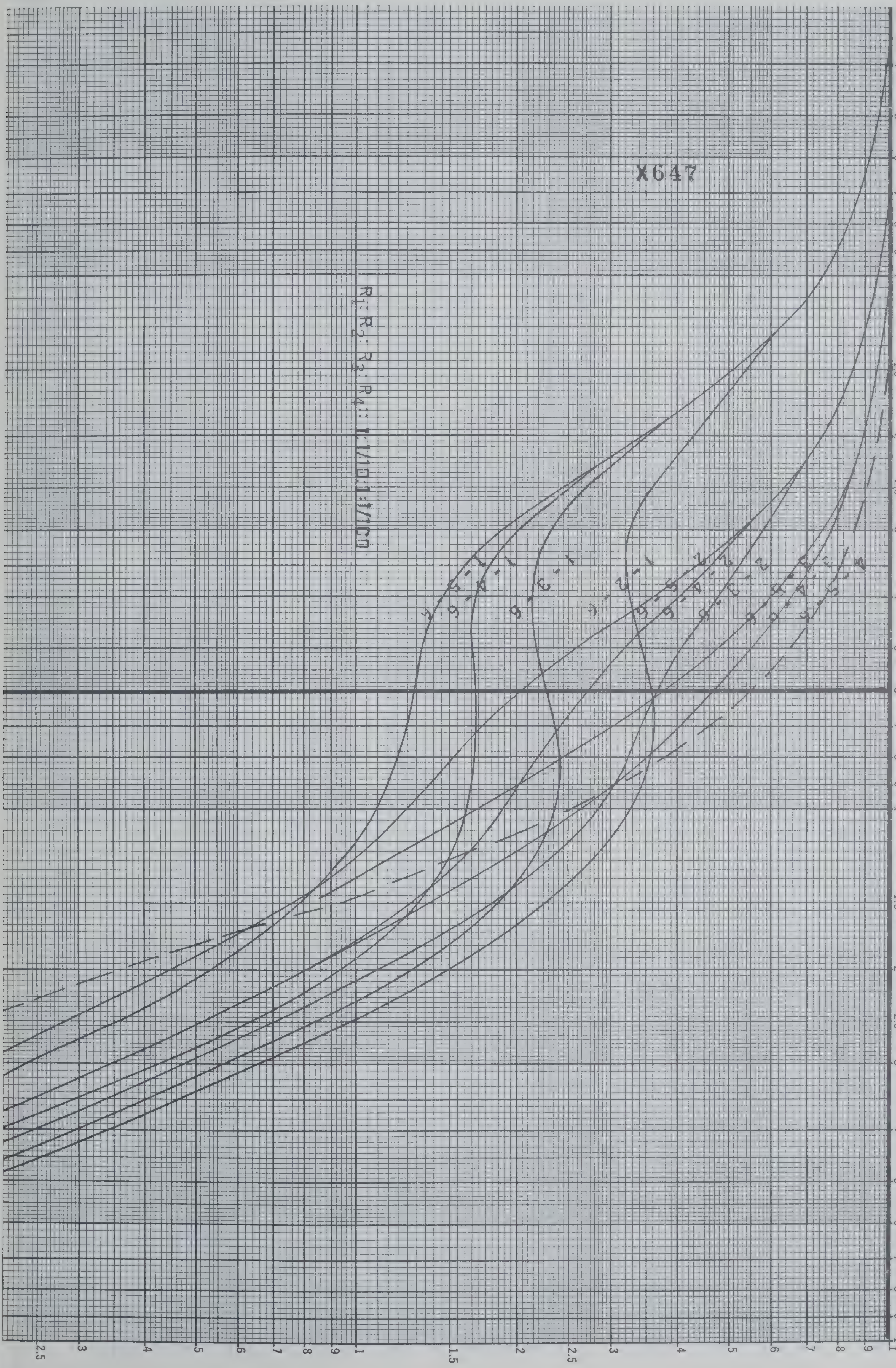
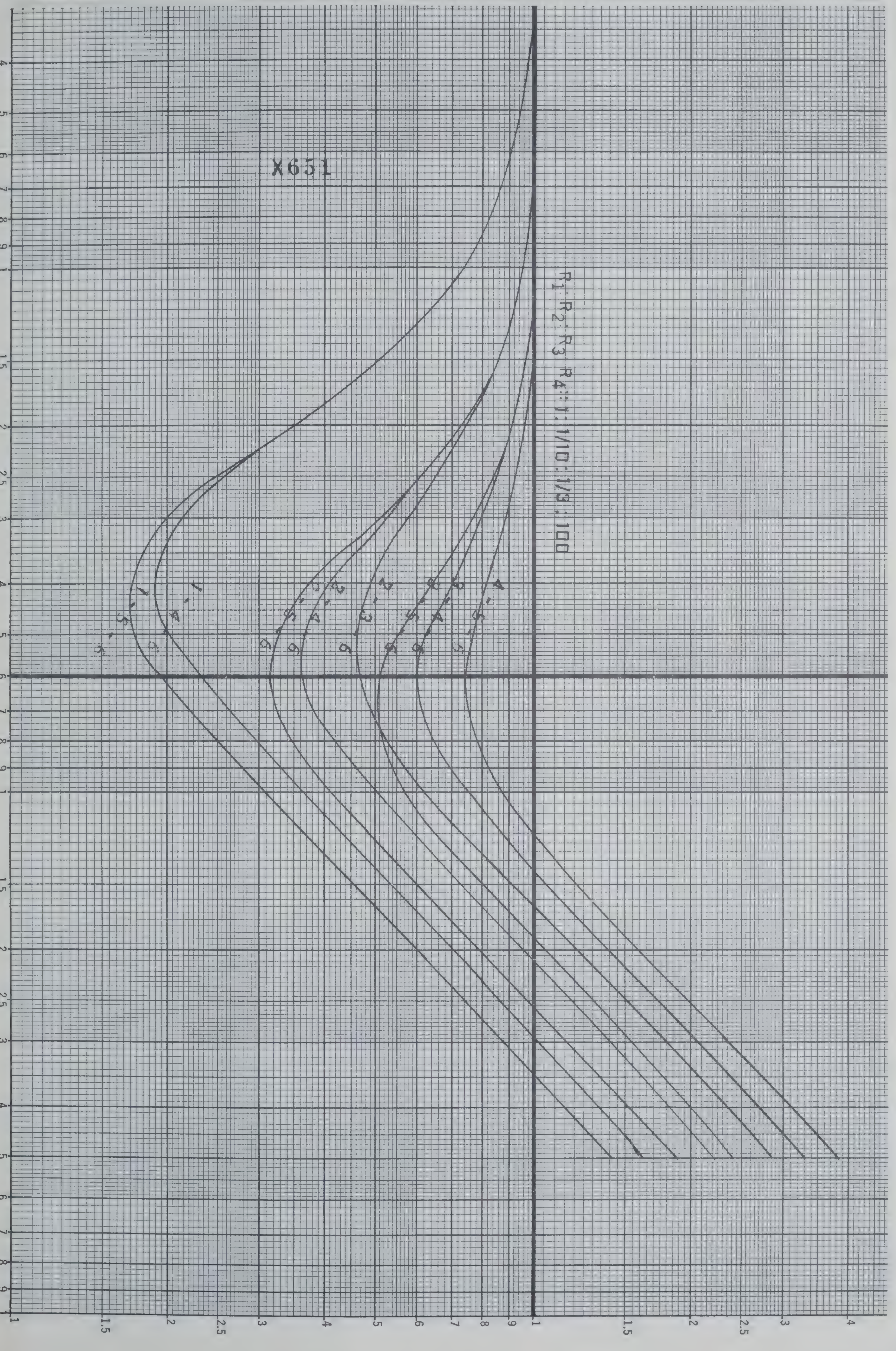
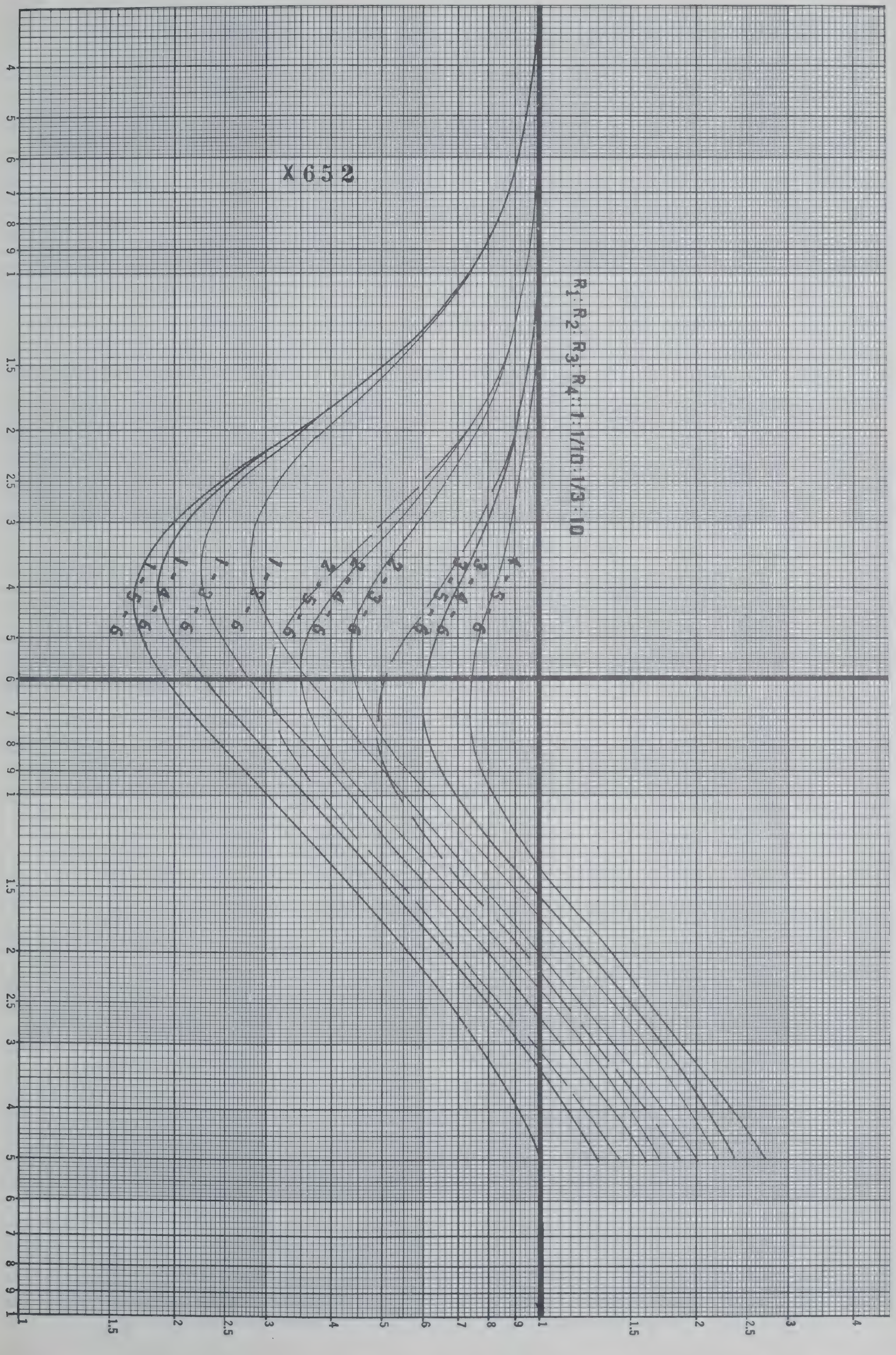



X 6 4 5
R1:R2:R3:R4 = 1:1/10:1:1/3


X646
R1:R2:R3:R4::1:1/10:1:1/10


X647
R1:R2:R3:R4::


X651
R1:R2:R3:R4::1:1/10:1/3:100


X652
R1:R2:R3:R4::1:1/10:1/3:10

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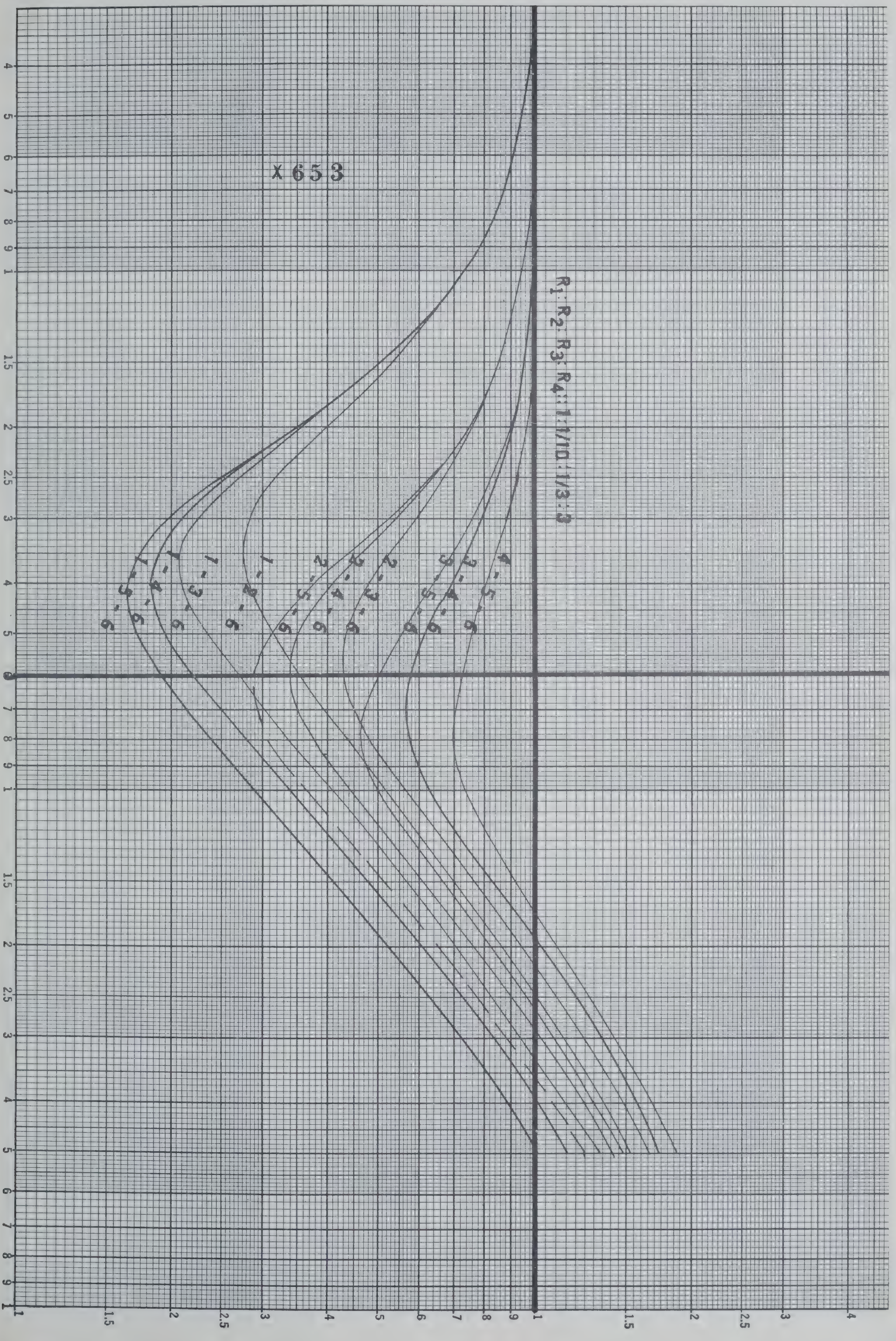
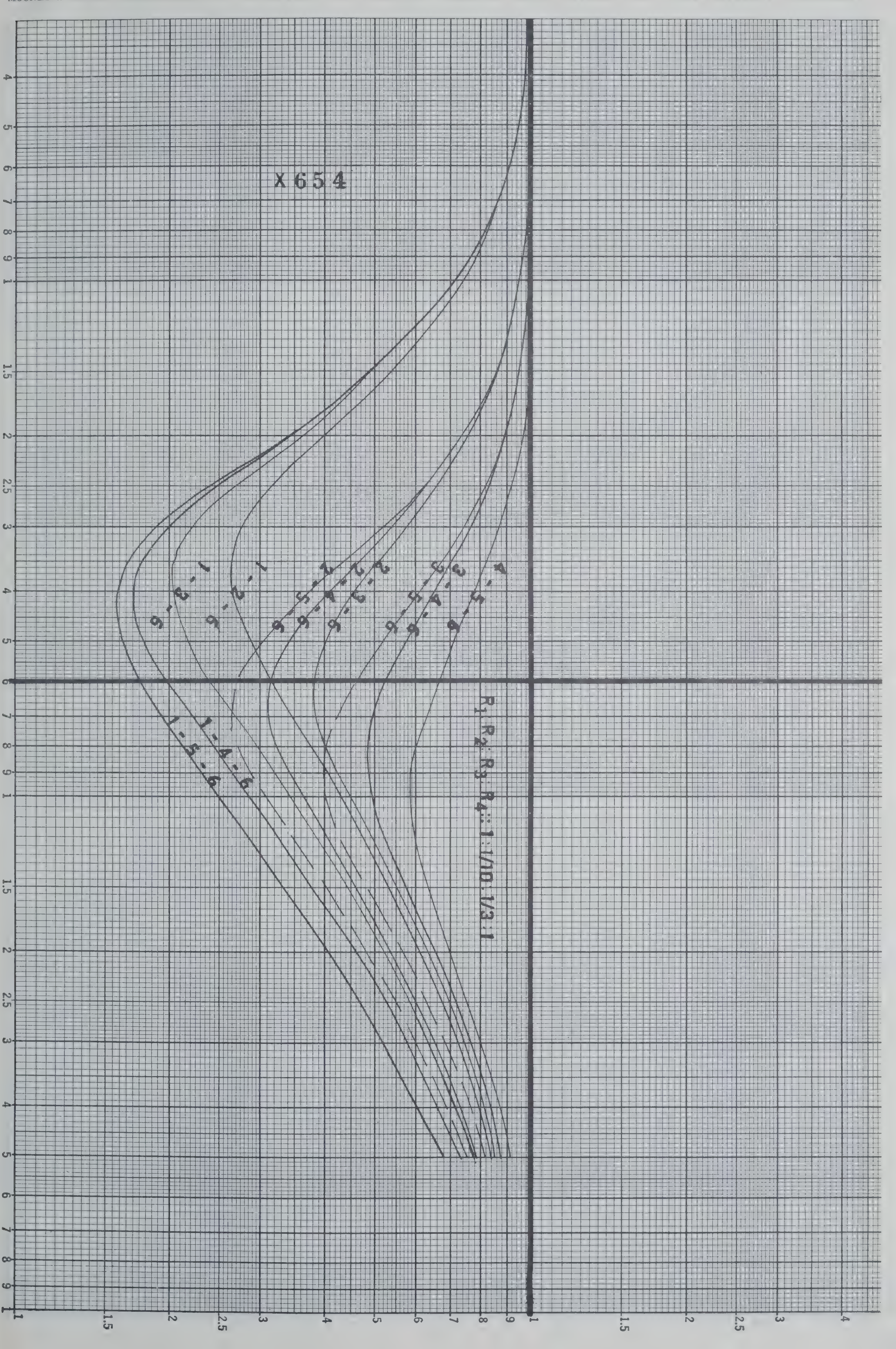
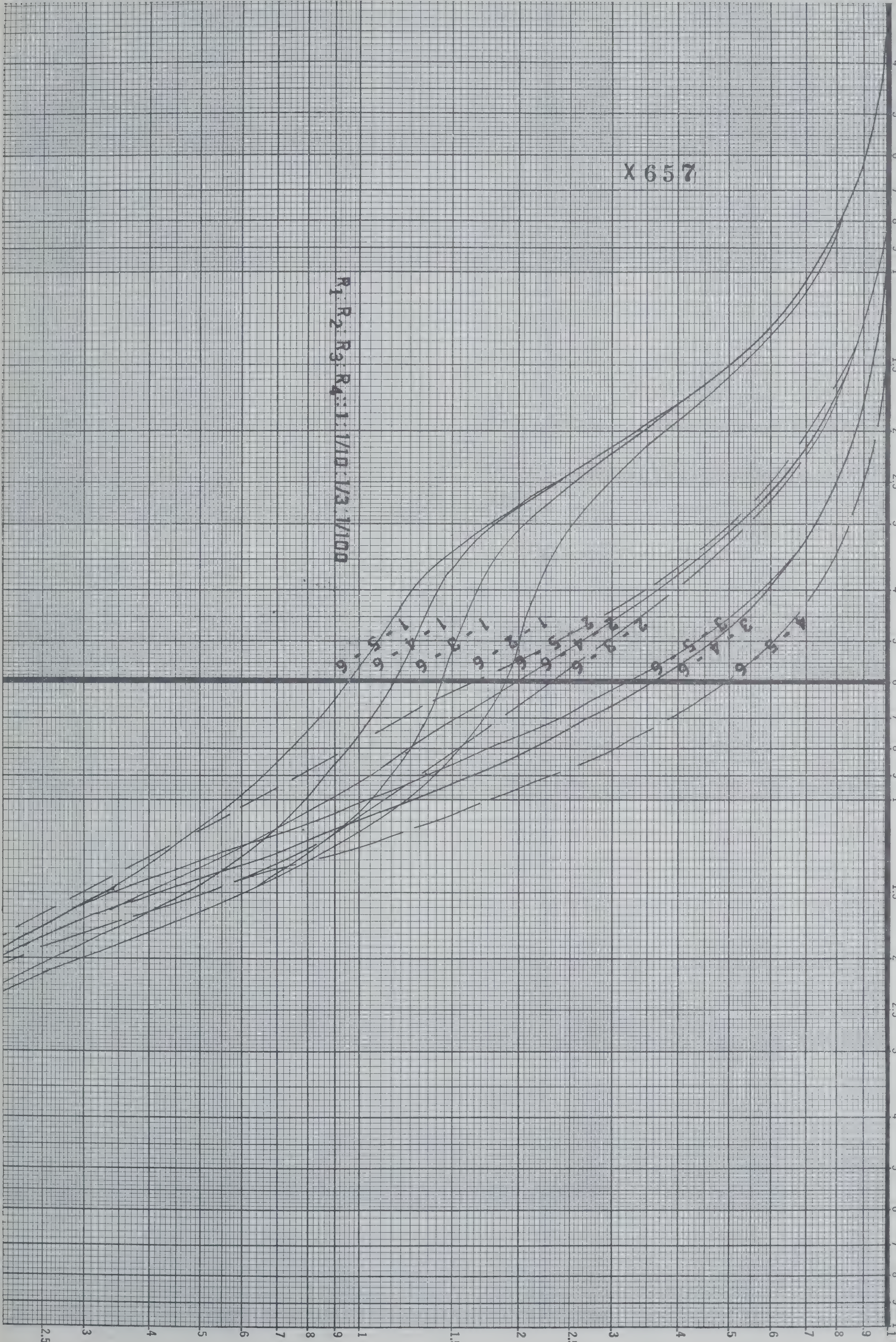
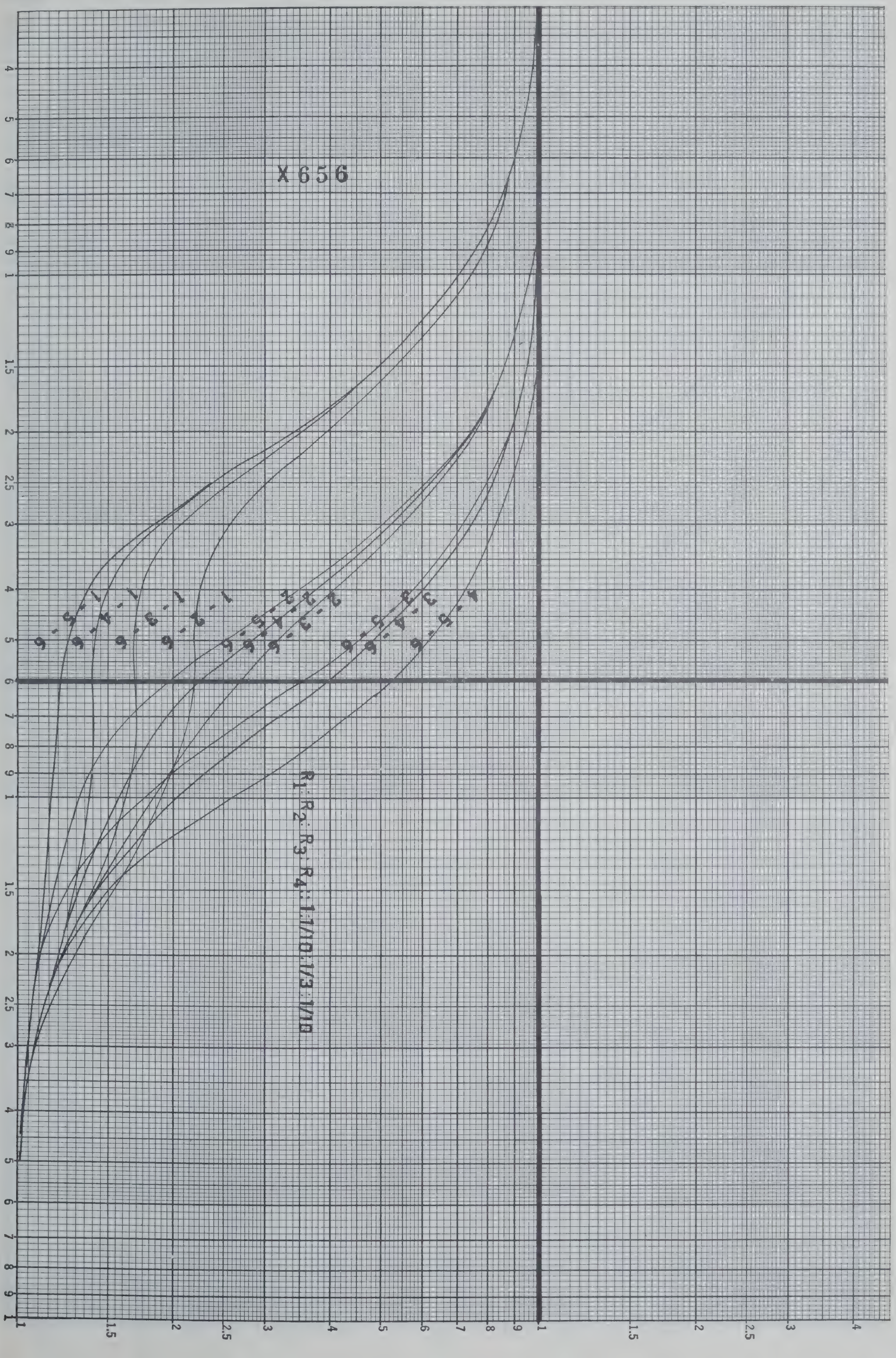
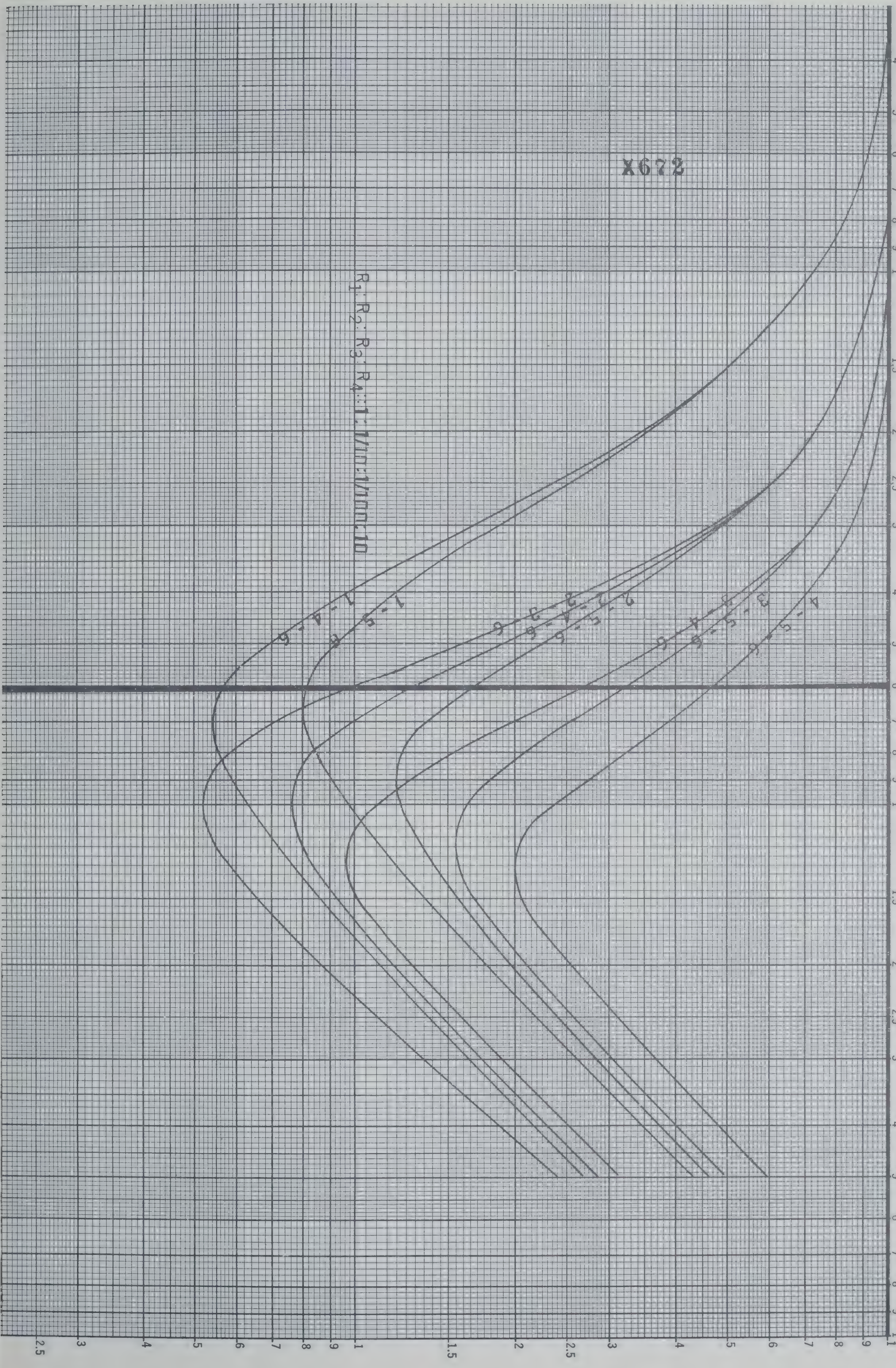
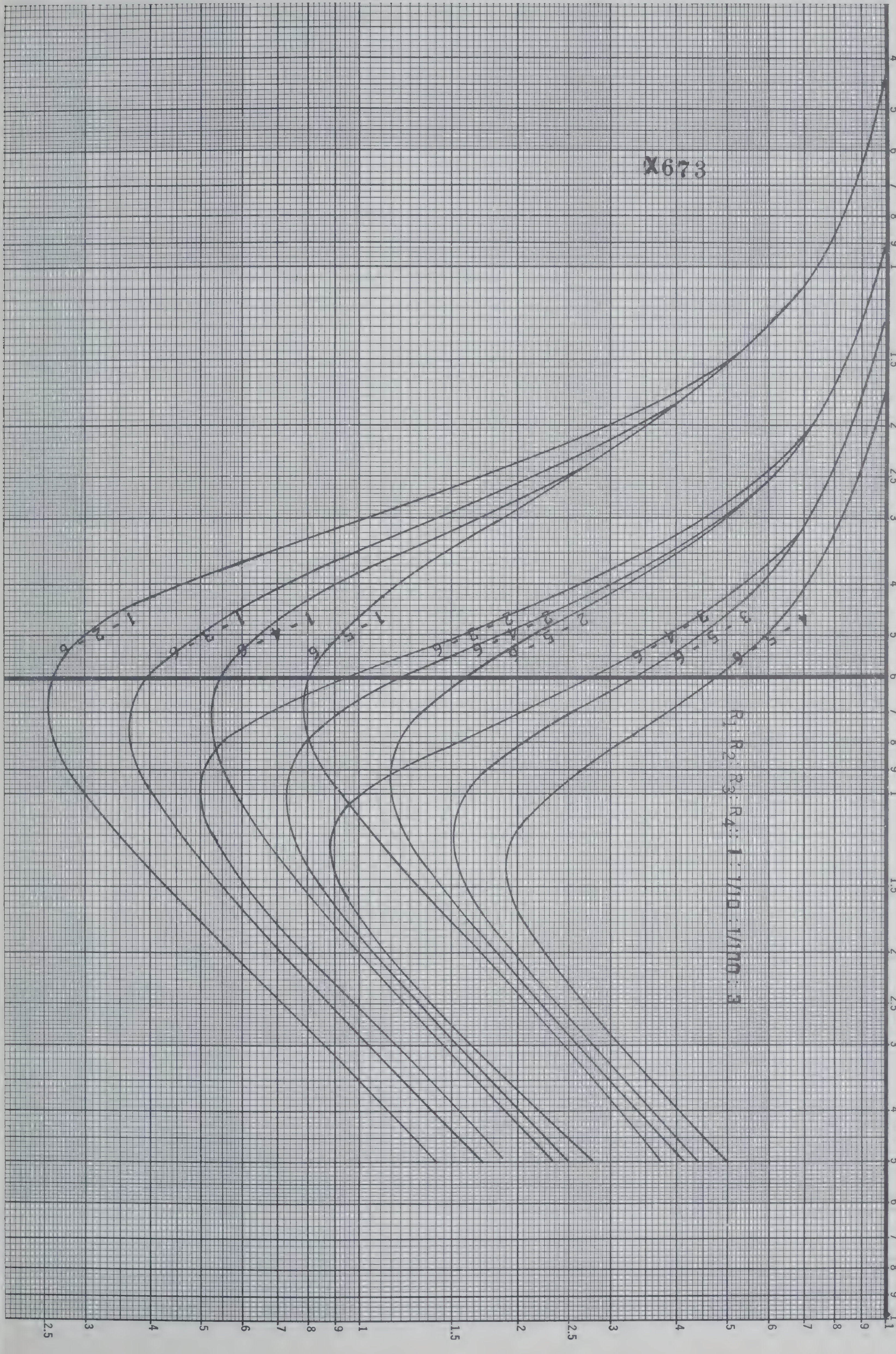


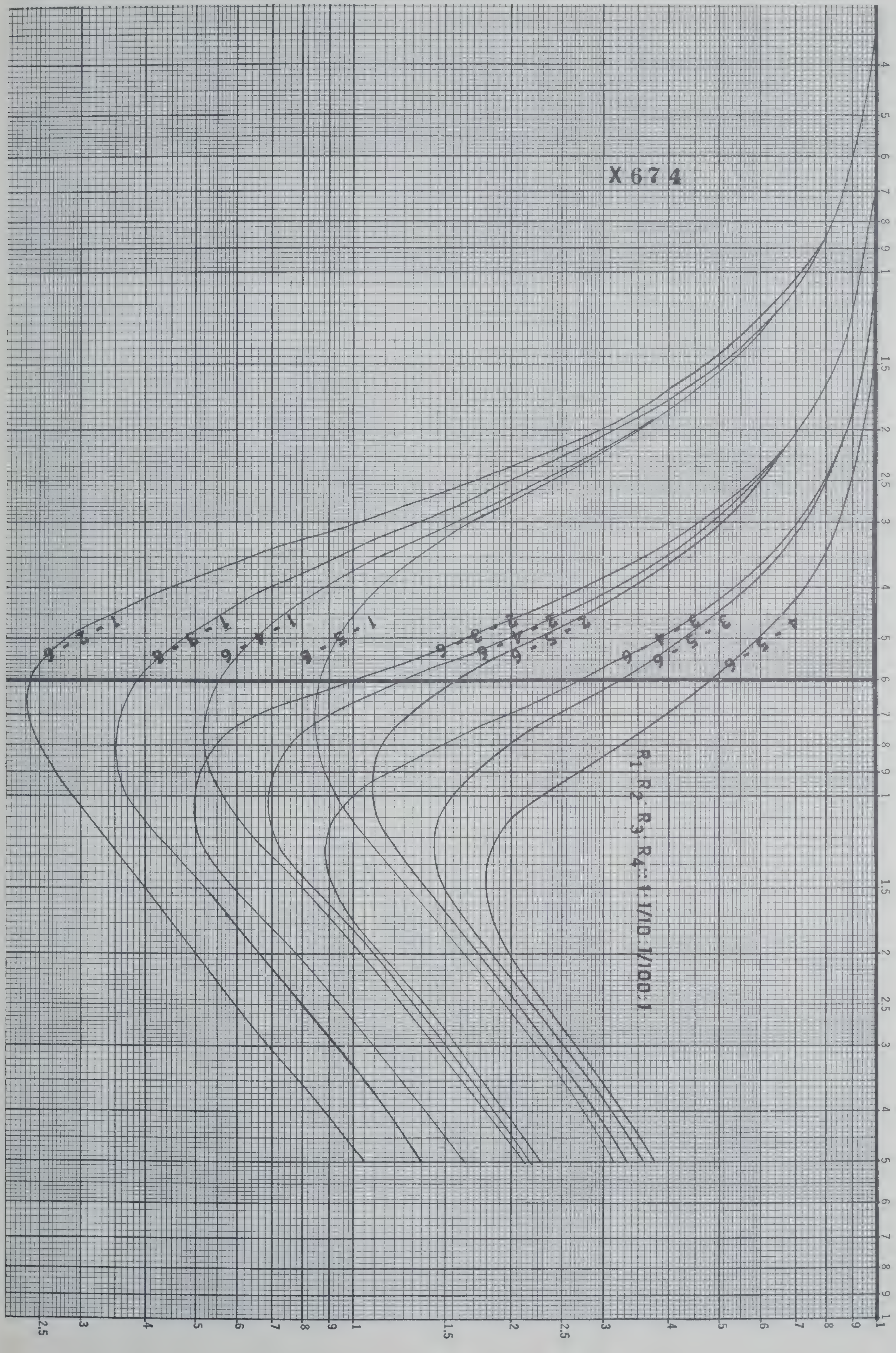

X654
1-4-6
1-5-6
$R_1:R_2:R_3:R_4::1:1/10:1/3:1$

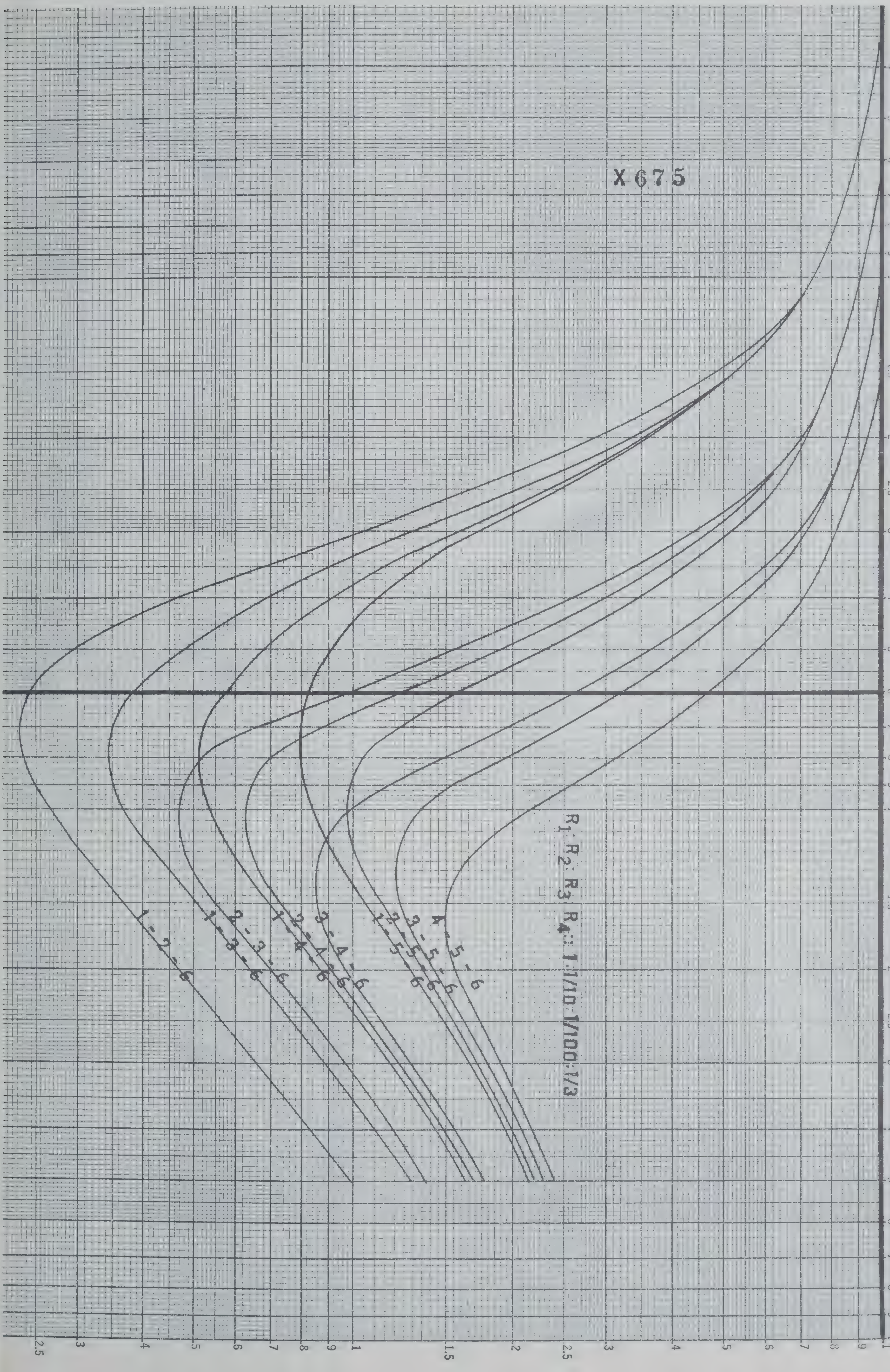

X 657
$R_1:R_2:R_3:R_4::1:1/10:1/3:1/100$

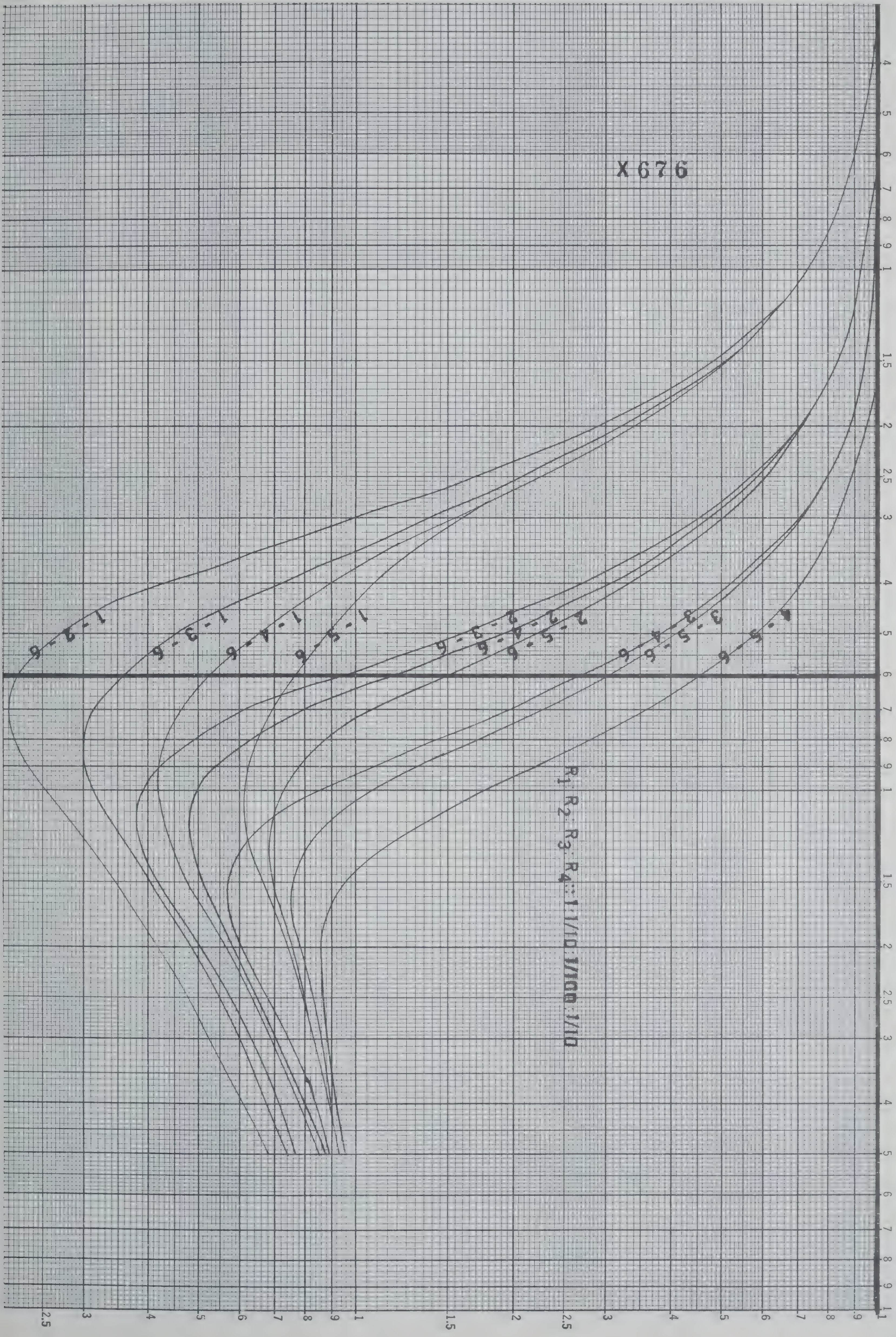

X 656
R1:R2:R3:R4::1:1/10:1/3:1/10

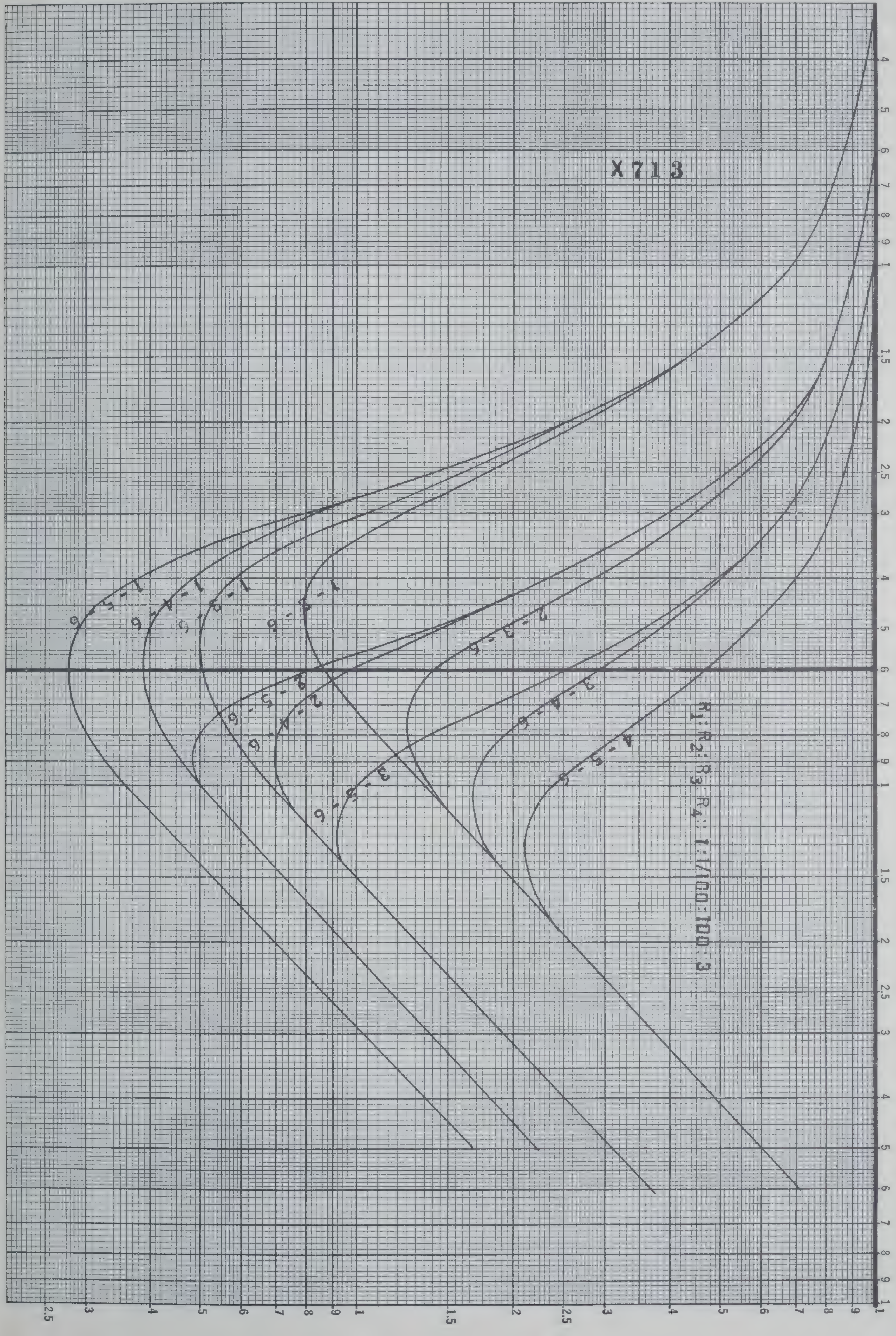

X672

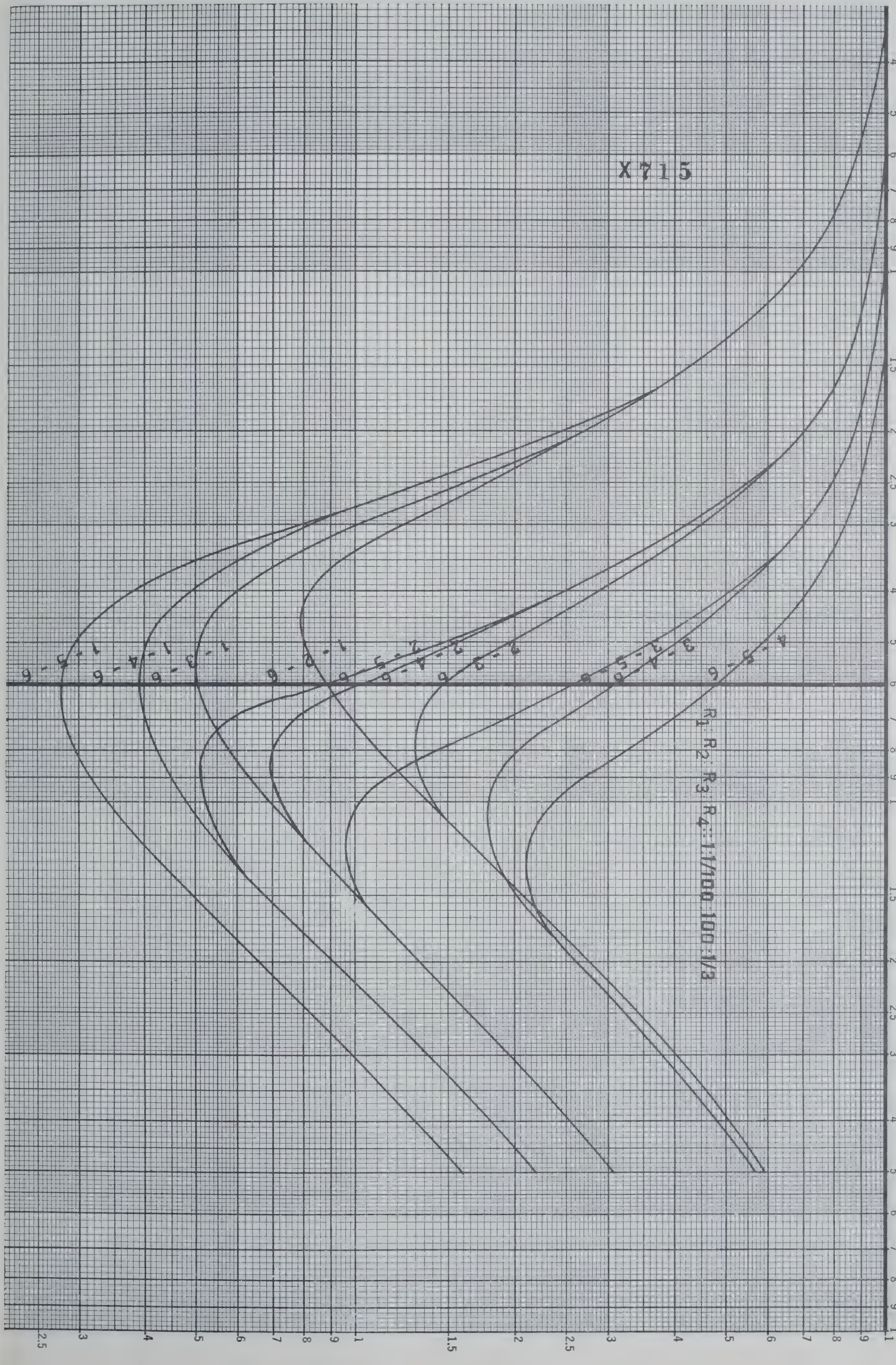

X673
R1:R2:R3:R4::1:1/10:1/100:3
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6

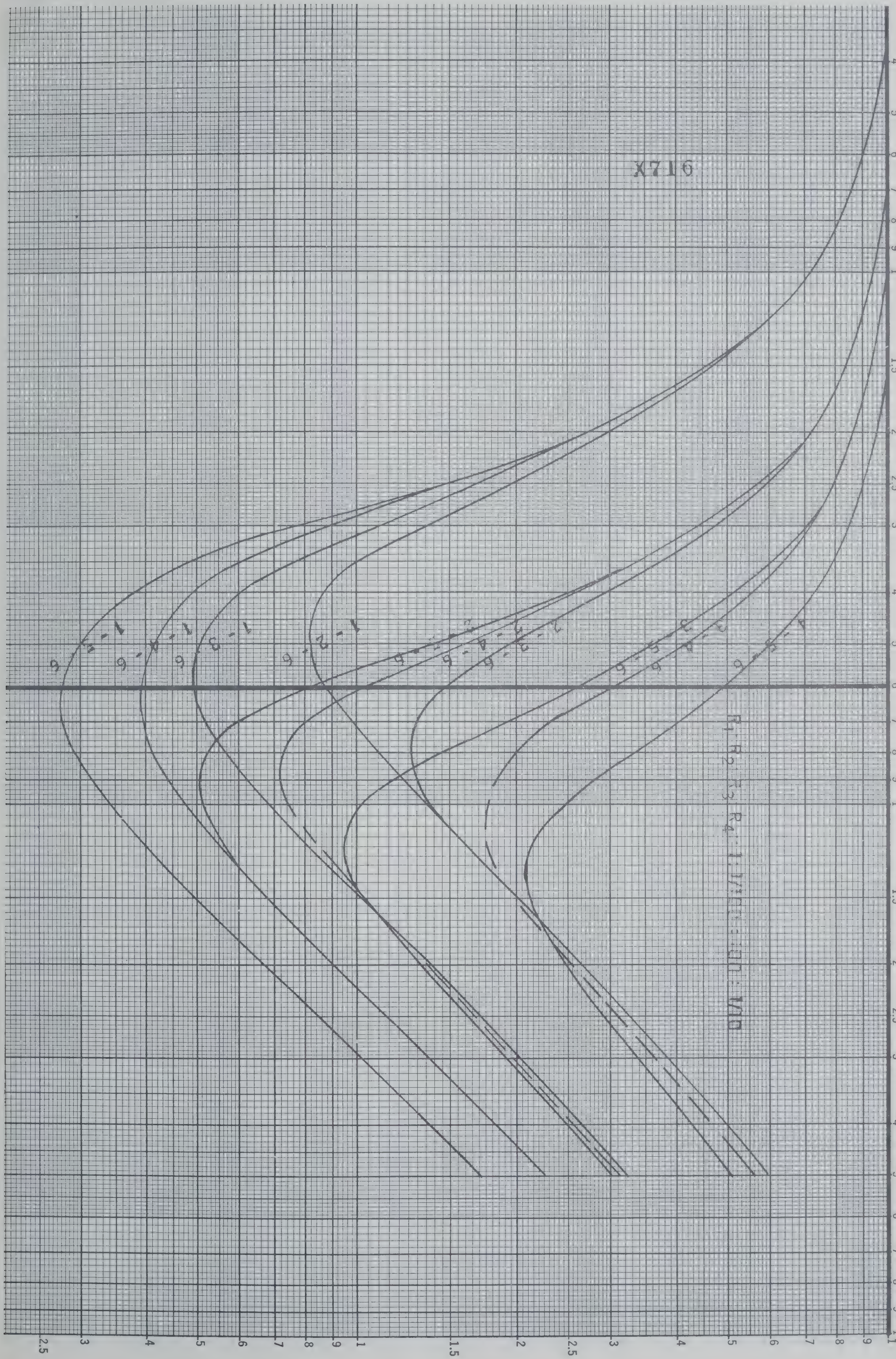

X 674
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6
R1:R2:R3:R4::1:1/10:1/100:1

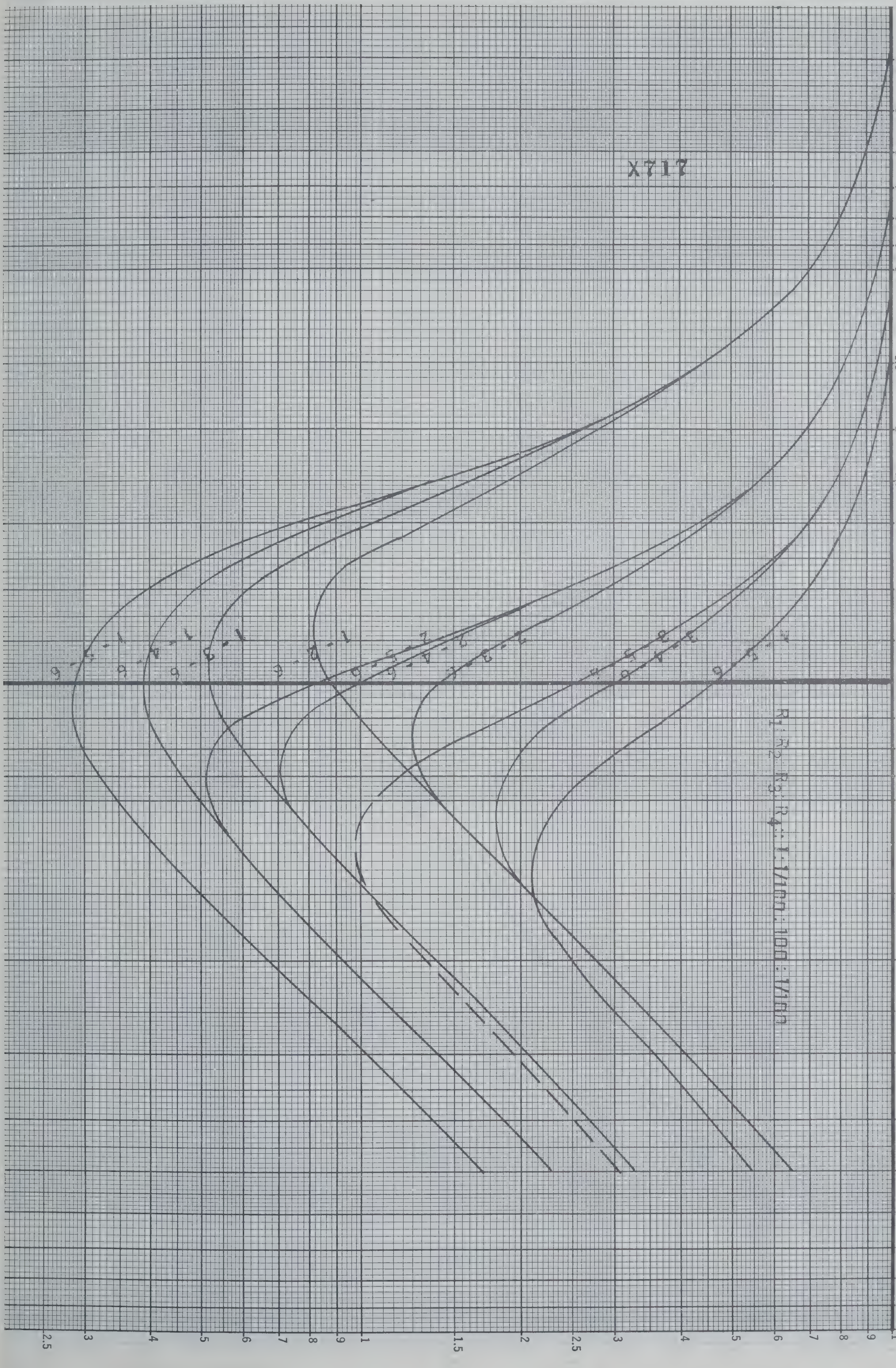

X 675
R1: R2: R3: R4 :: 1:1/10:1/100:1/3
1-2-6
1-3-6
2-3-6
1-4-6
2-4-6
3-4-6
1-5-6
2-5-6
3-5-6
4-5-6

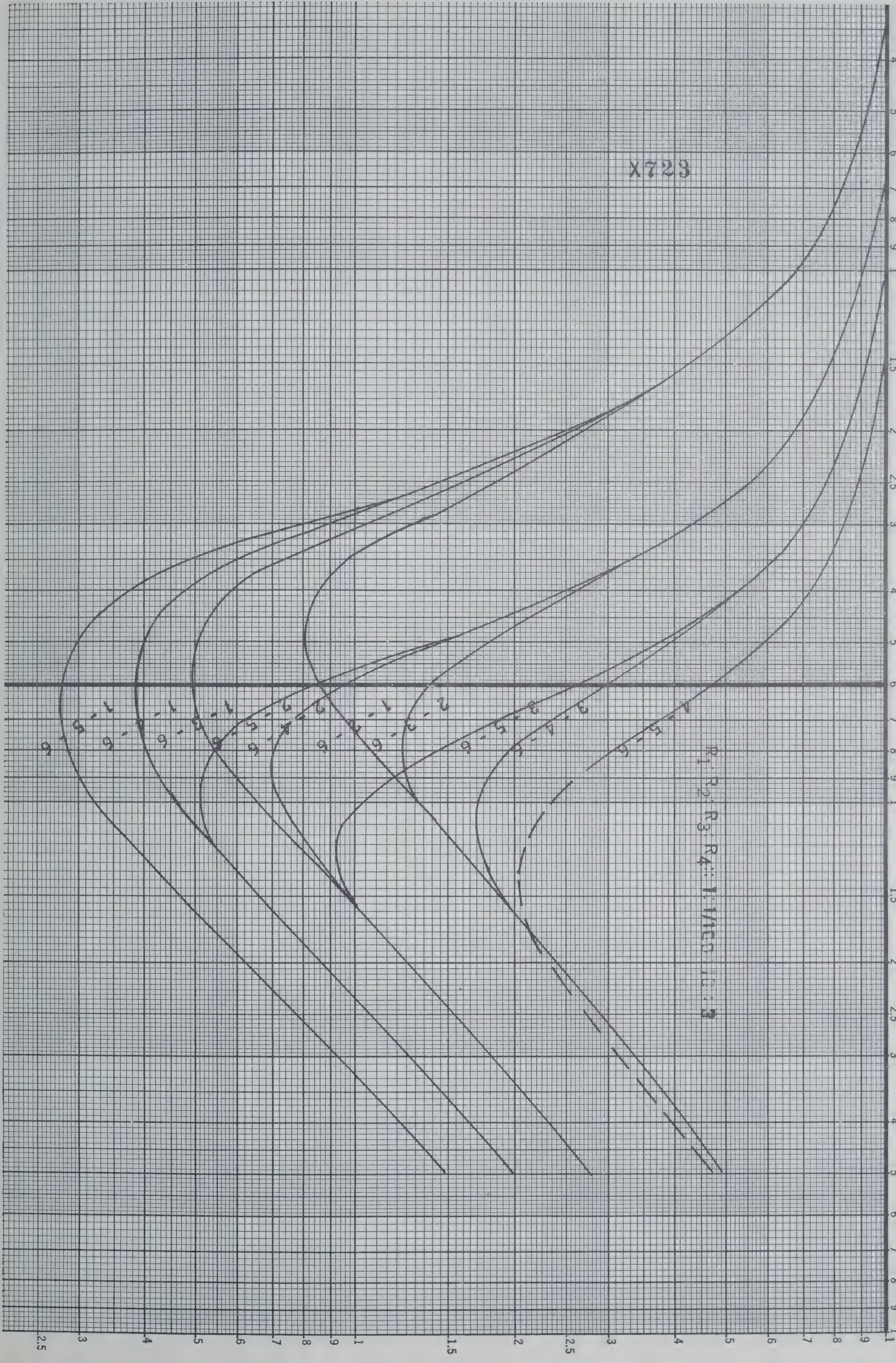

X 676
1-2-6
1-3-6
1-4-6
1-5-6
2-3-6
2-4-6
2-5-6
3-4-6
3-5-6
4-5-6
R1 R2 R3 R4 :: 1 1/10 1/100 1/10

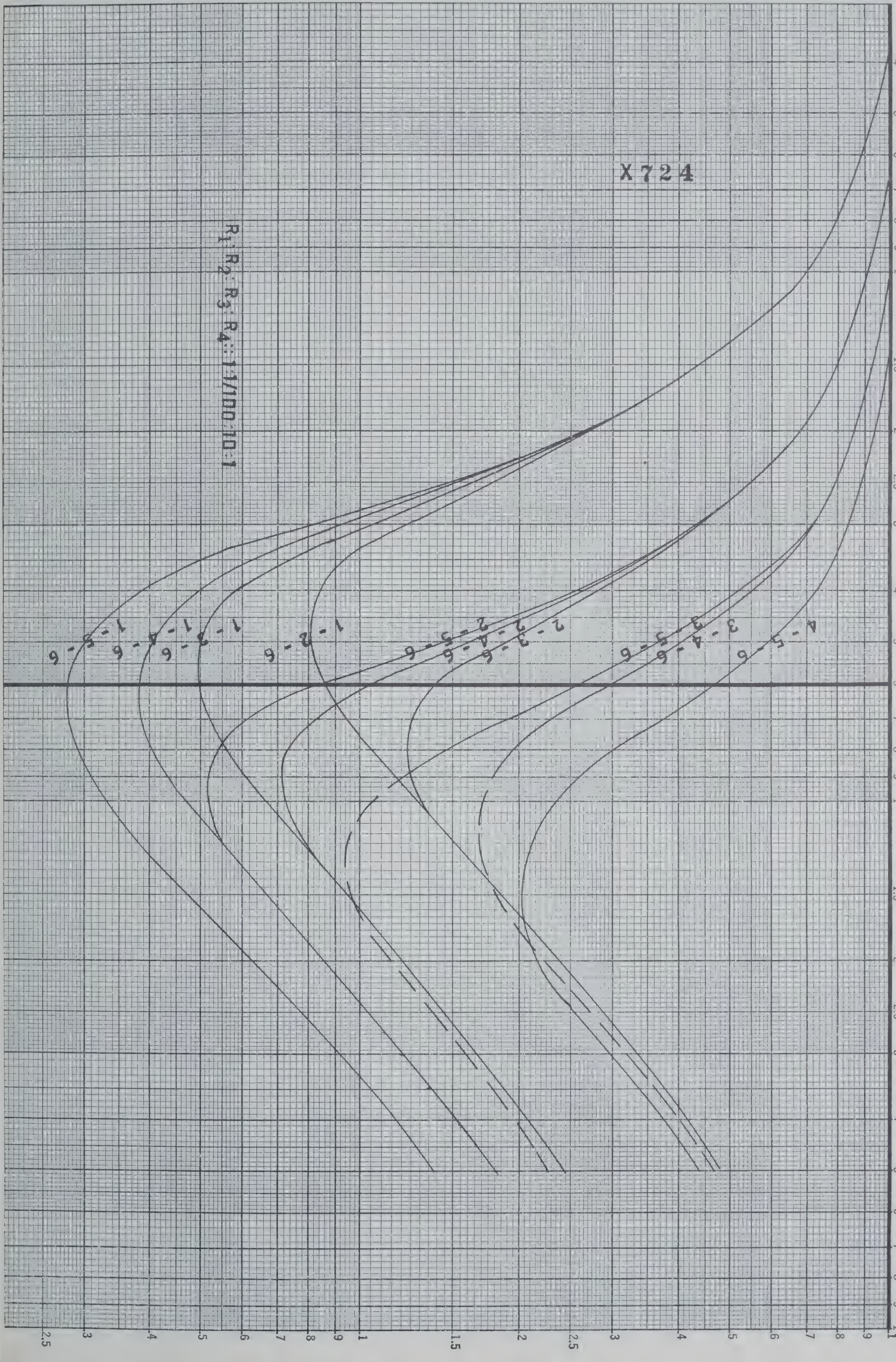

X 713
R1:R2:R3:R4 1:1/100:100:3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

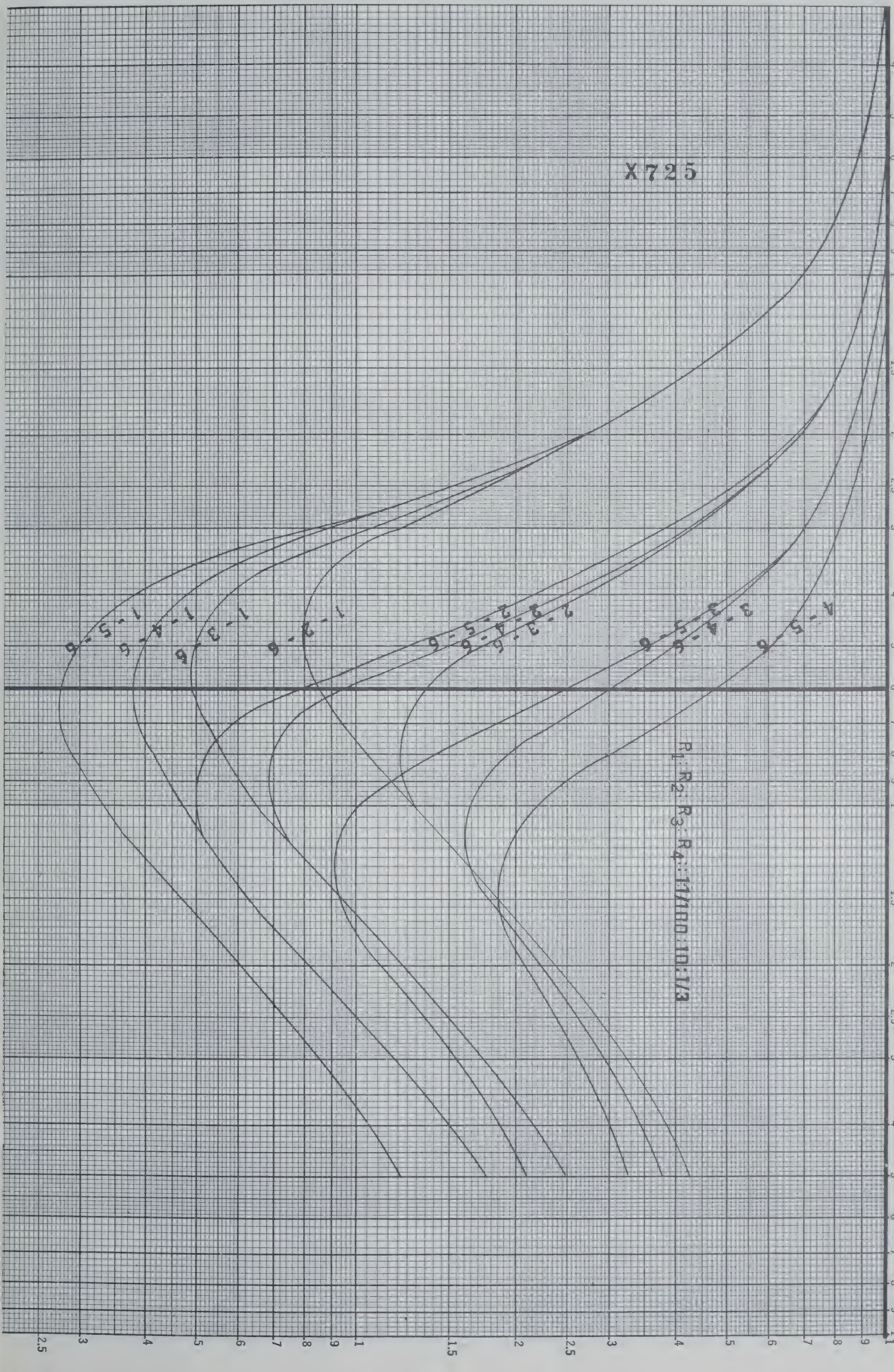

X715
R1 R2 R3 R4 :: 1:1/100:100:1/3

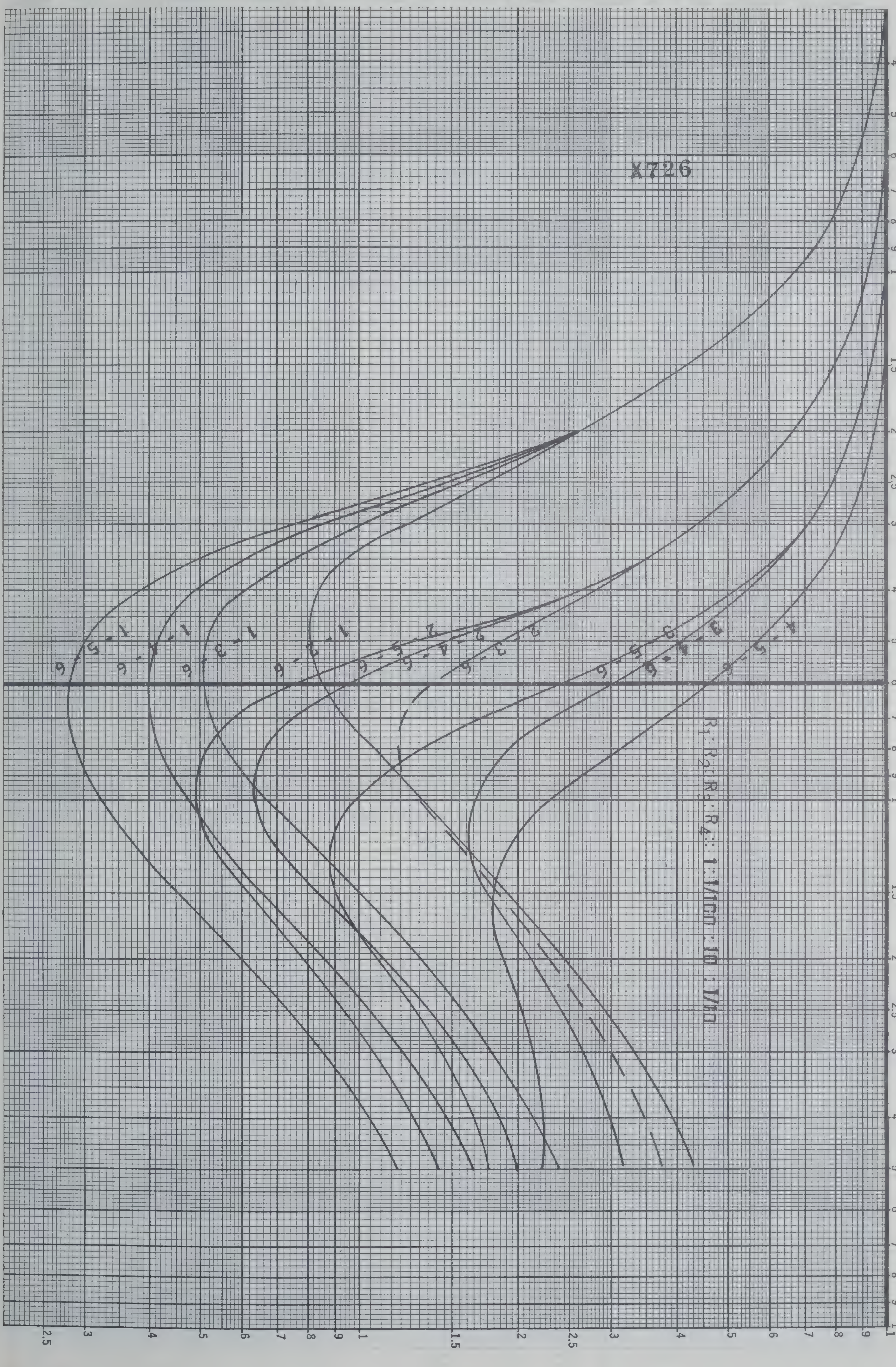

X716

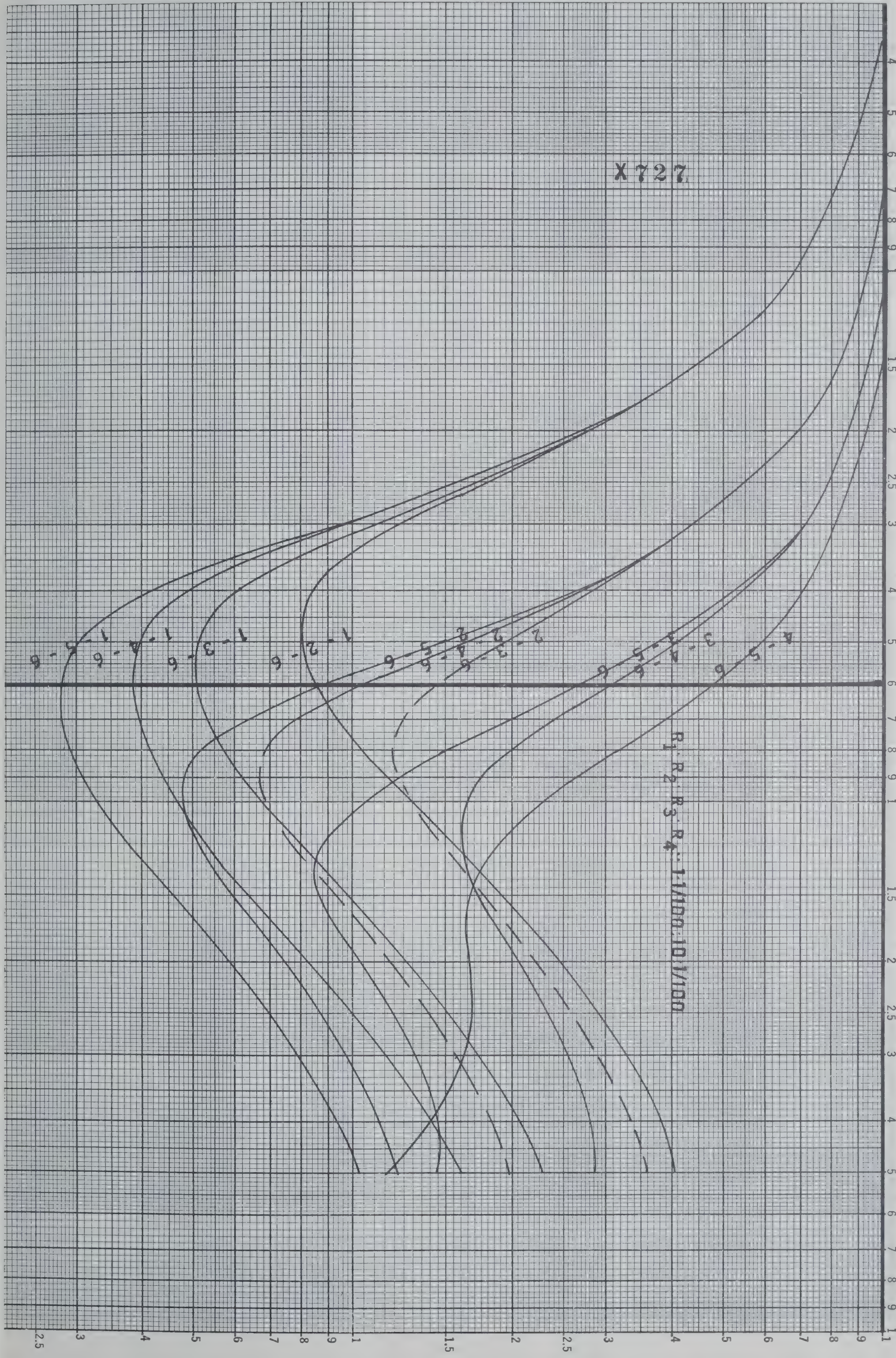

X717
R1:R2:R3:R4::1:1/100:100:1/100

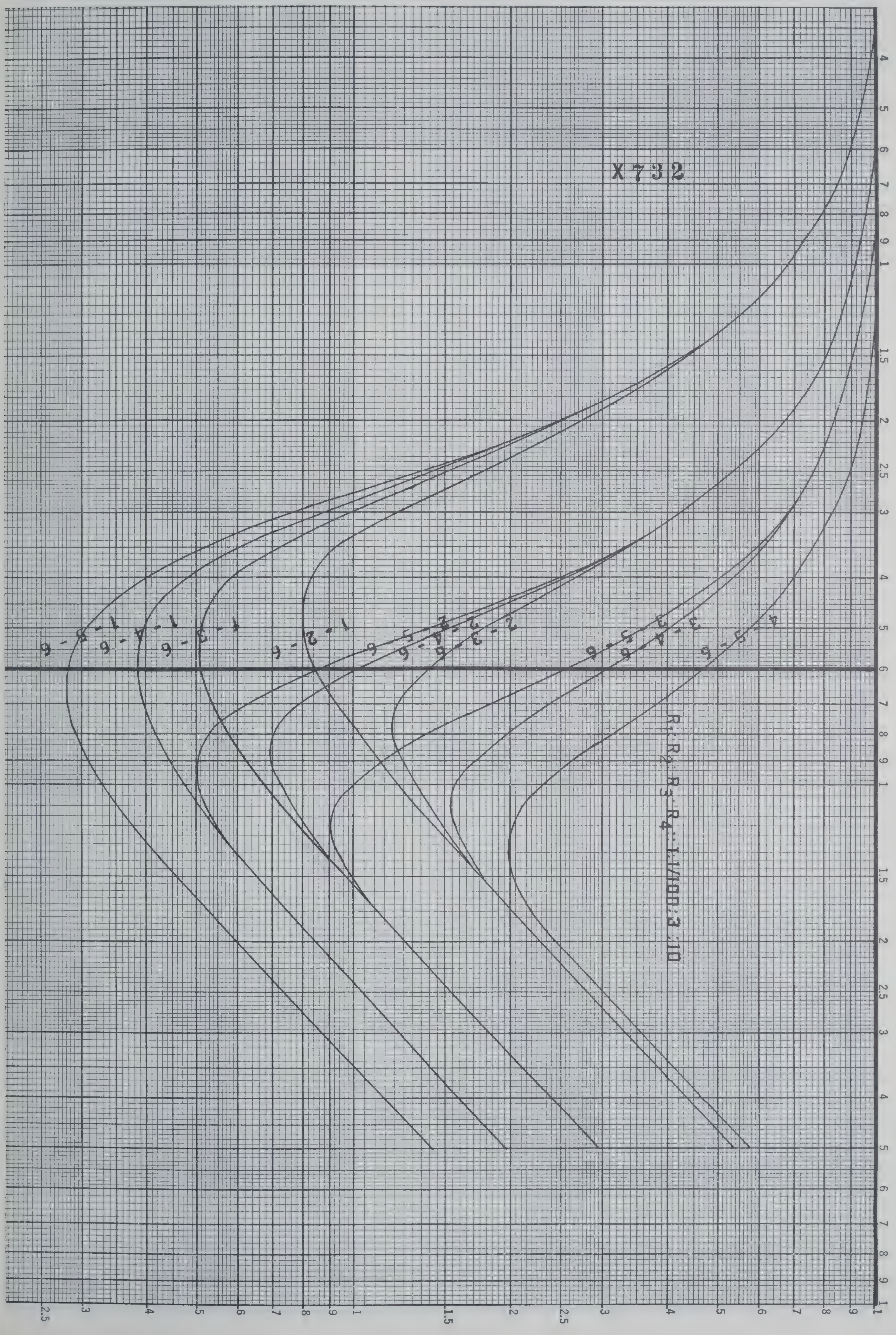

X723

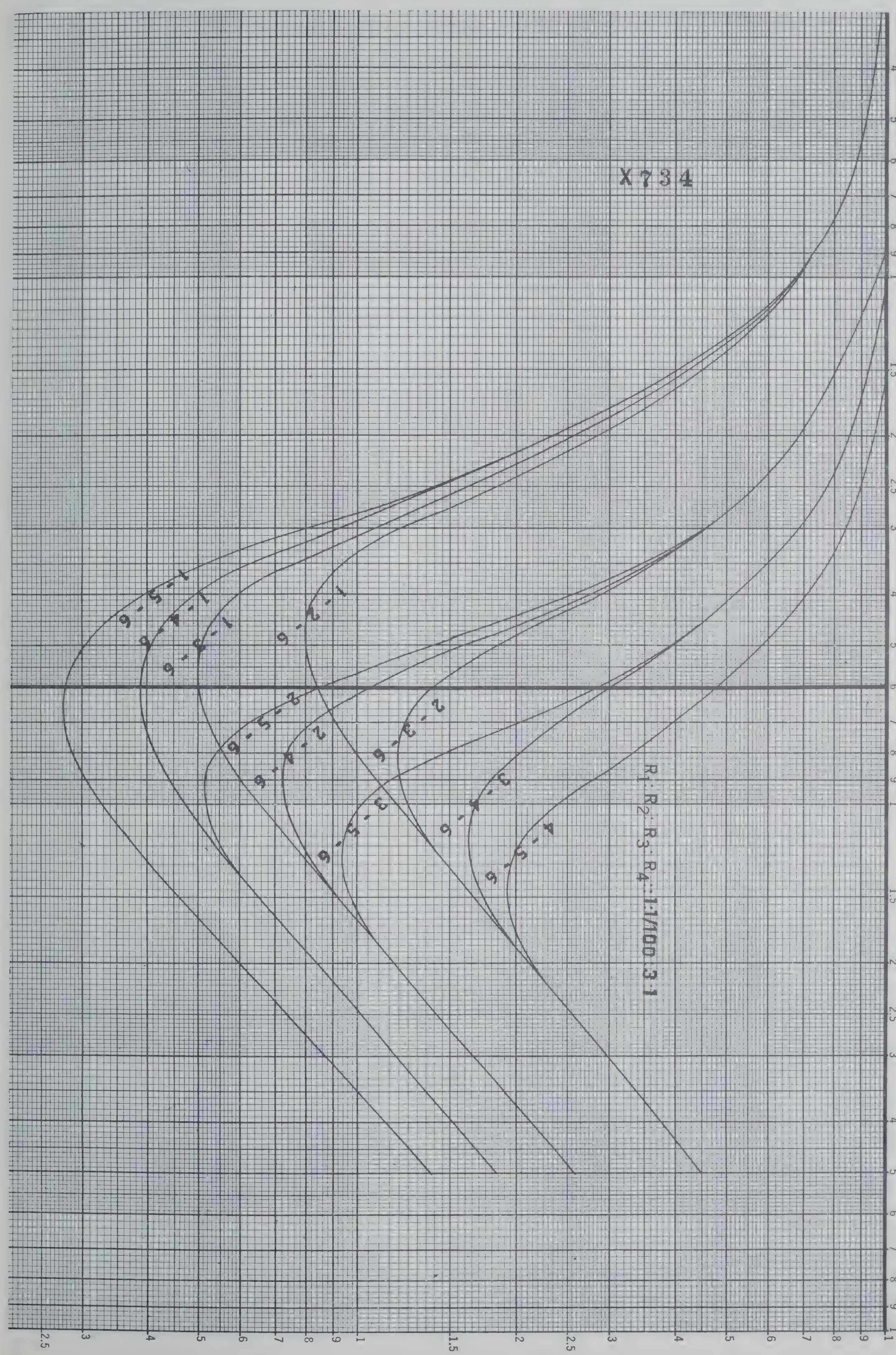

X 724
R1:R2:R3:R4::1:1/100:10:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

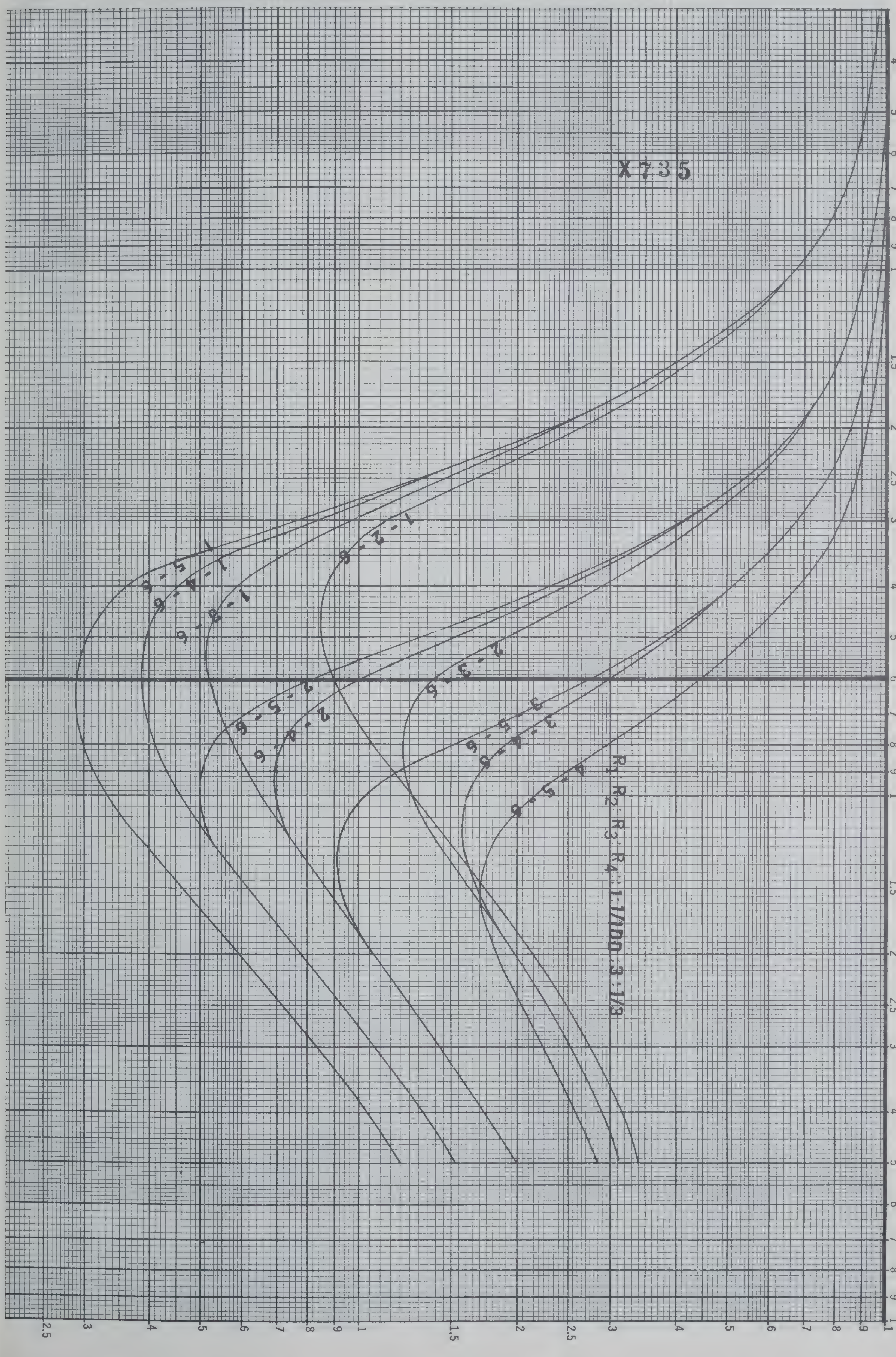

X725
R1: R2: R3: R4::1:1/100:10:1/3

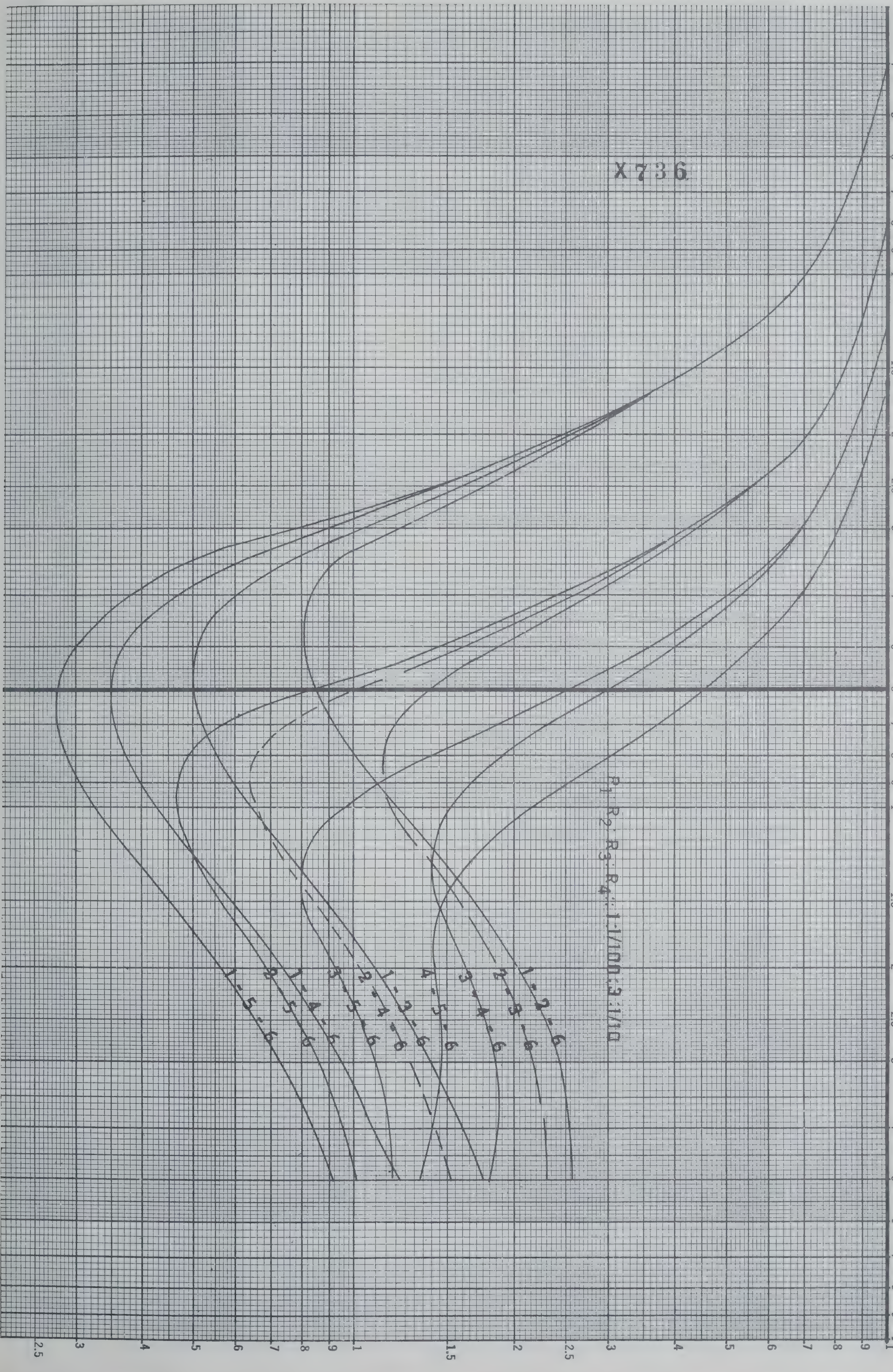

X726
R1: R2: R3: R4: 1:1/CD:10:1/10

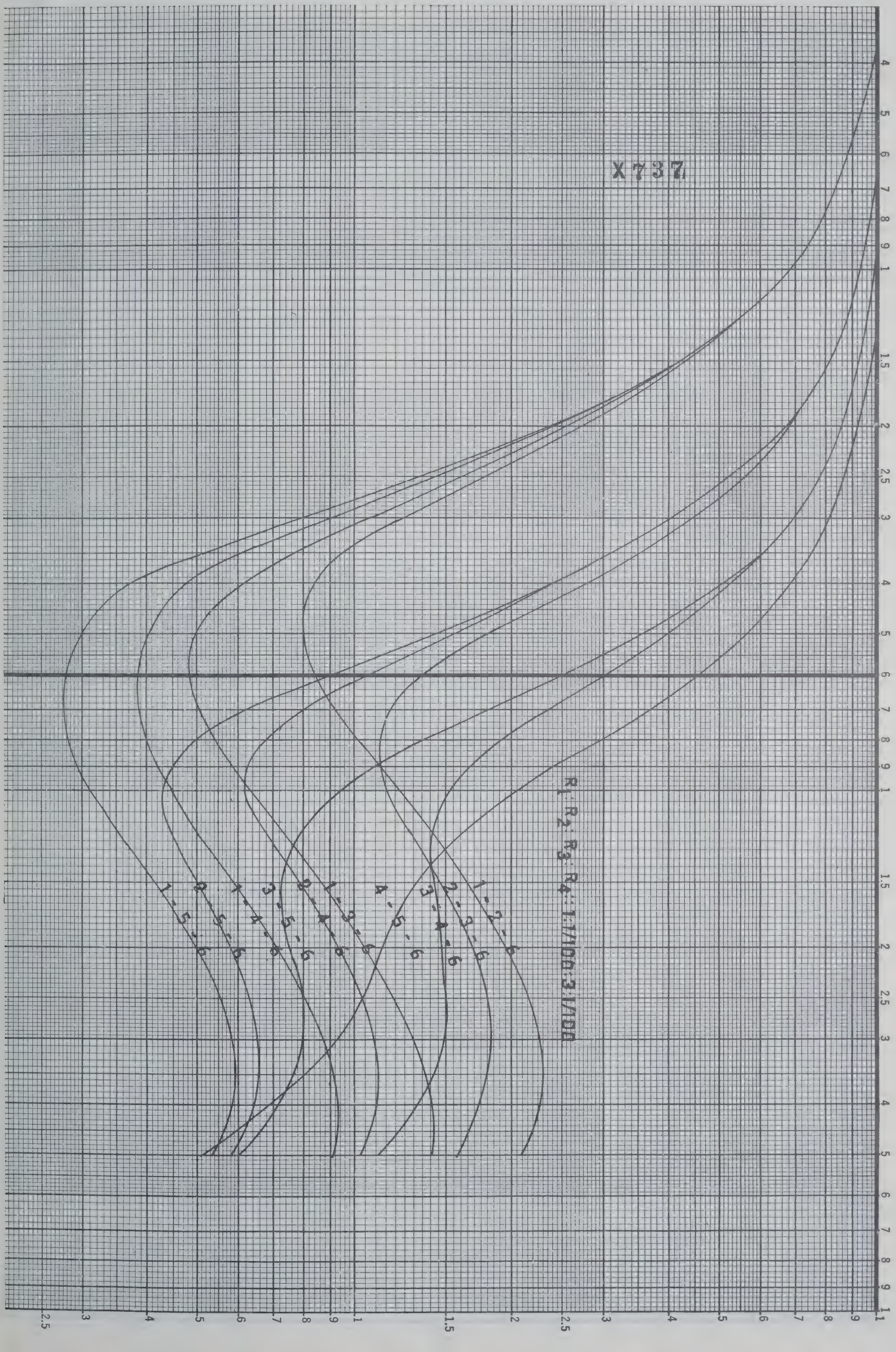

X 727
R1:R2:R3:R4::1/1/100:10/1/100
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

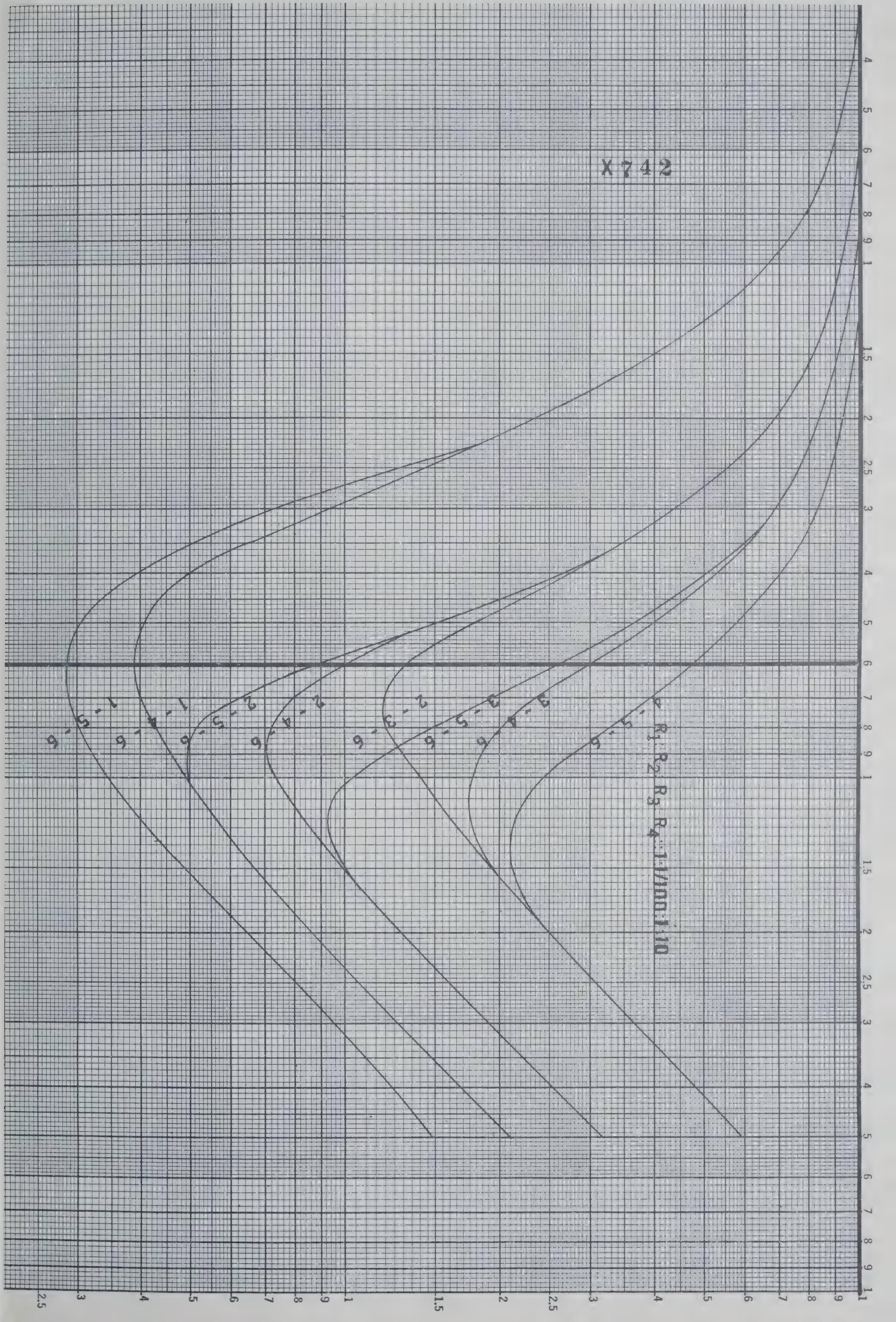

X732
R1:R2:R3:R4::1:1/100:3:10

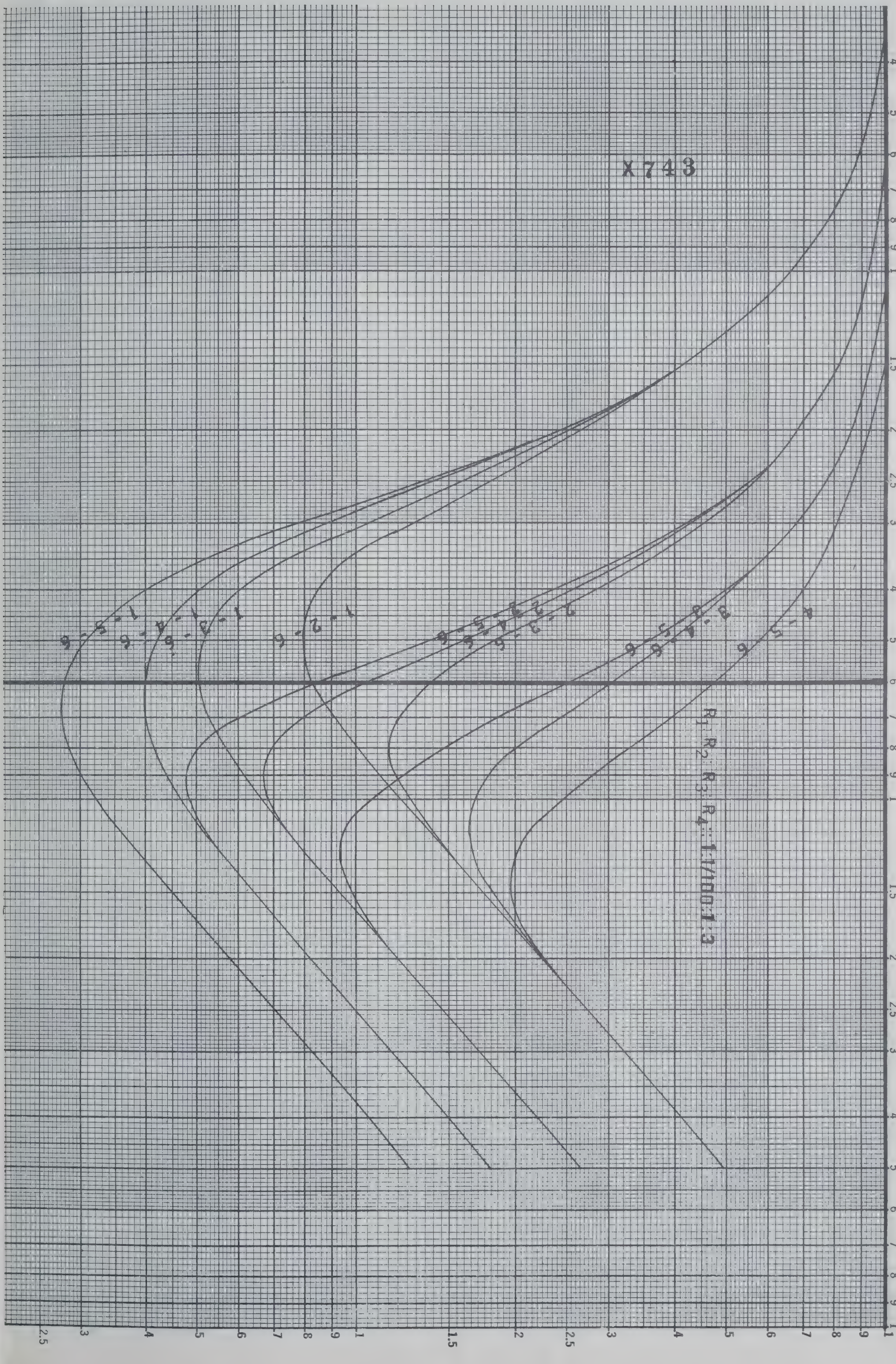

X734
R1:R2:R3:R4::1:1/100:3:1
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

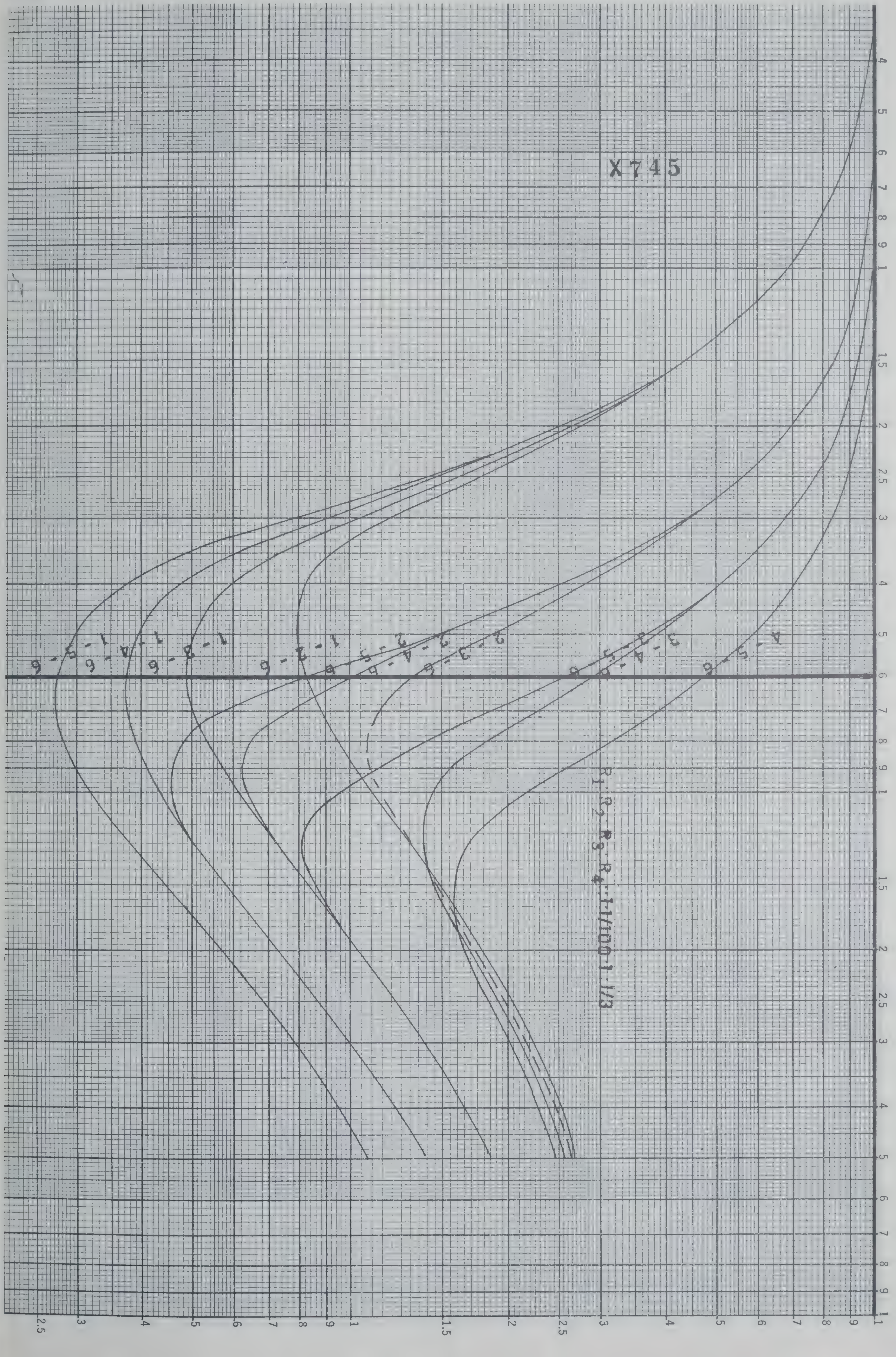

X735
$R_1 : R_2 : R_3 : R_4 :: 1 : 1/100 : 3 : 1/3$

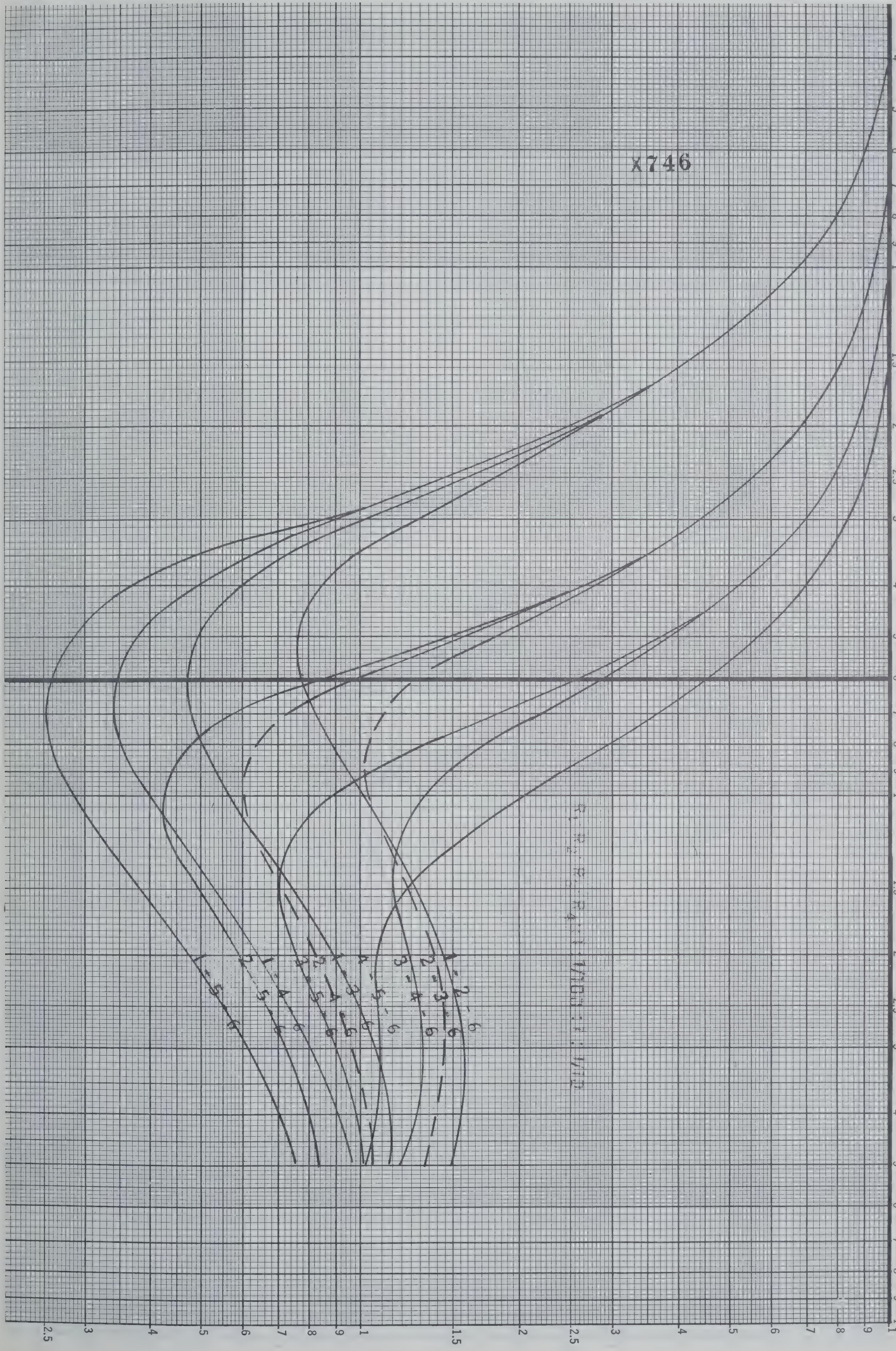

X736
R1:R2:R3:R4::1:1/100:3:1/10
1-5-6
2-5-6
1-4-6
3-5-6
2-4-6
1-3-6
4-5-6
3-4-6
2-3-6
1-2-6

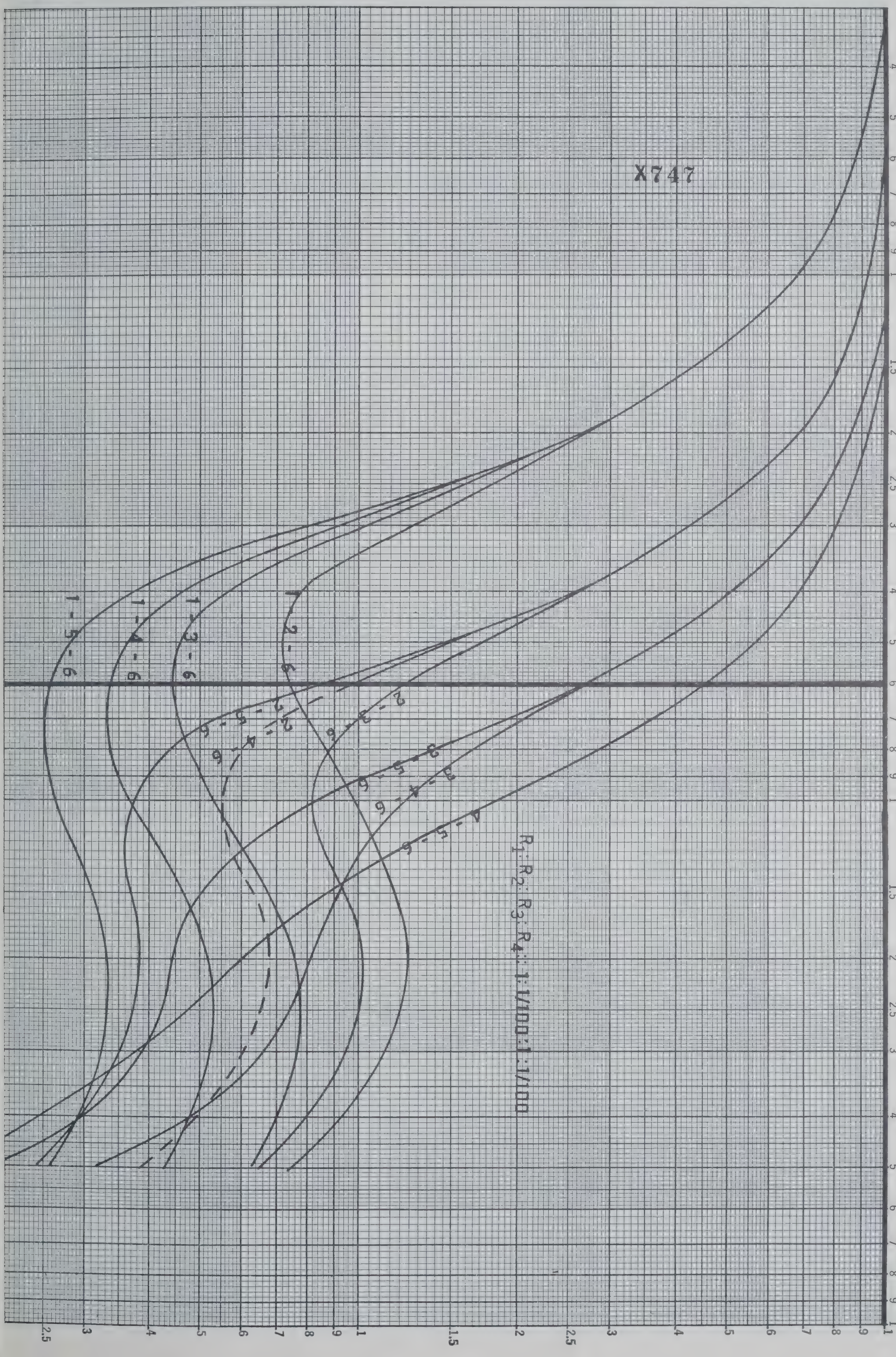

X737
R1 : R2 : R3 : R4 : 1 : 1/100 : 3 : 1/100
1-2-6
2-3-6
3-4-6
4-5-6
1-3-6
2-4-6
3-5-6
1-4-6
2-5-6
1-5-6

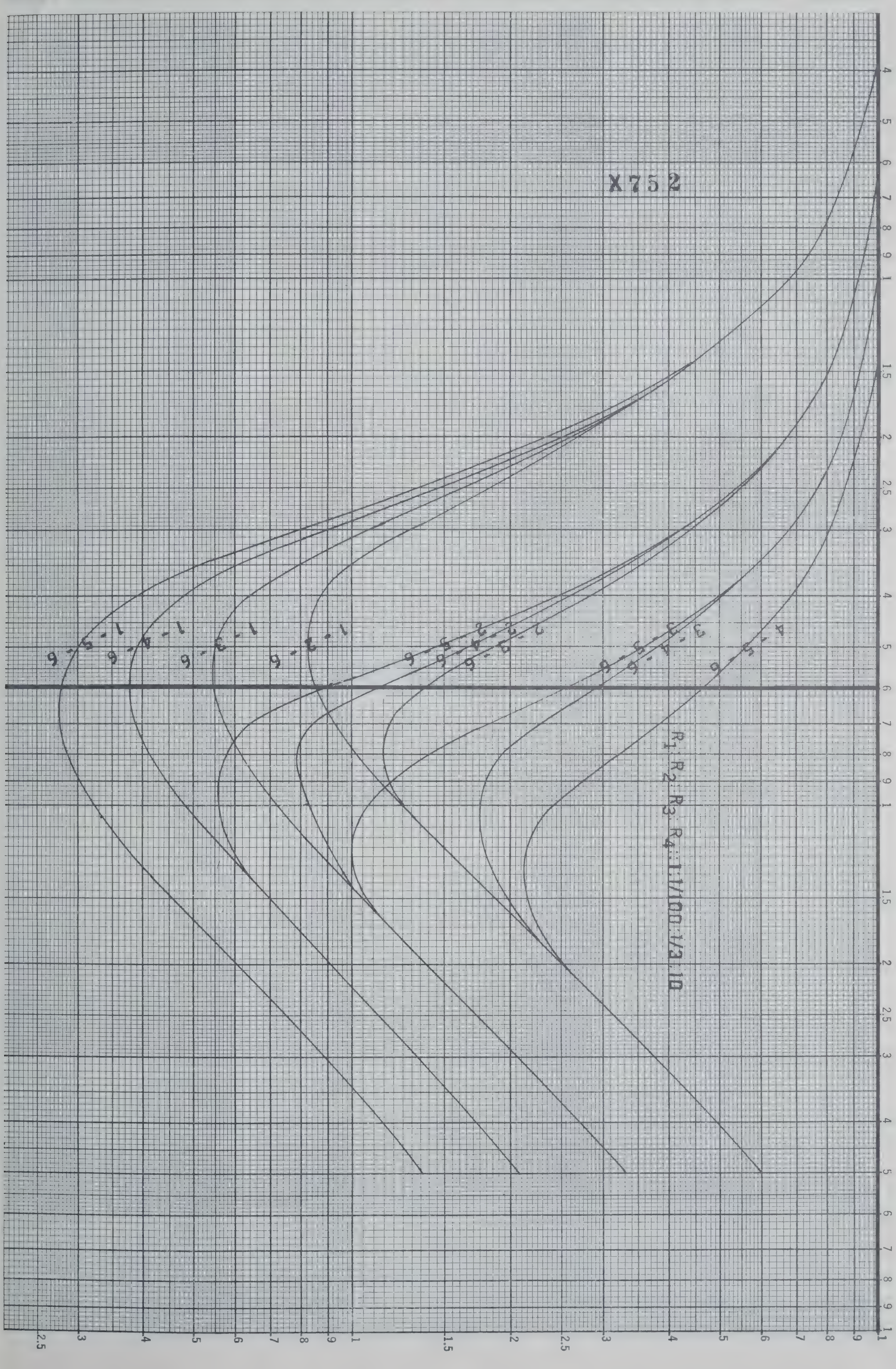

X 742
1-5-6
1-4-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6
R1 R2 R3 R4 : 1:1/100:1:10

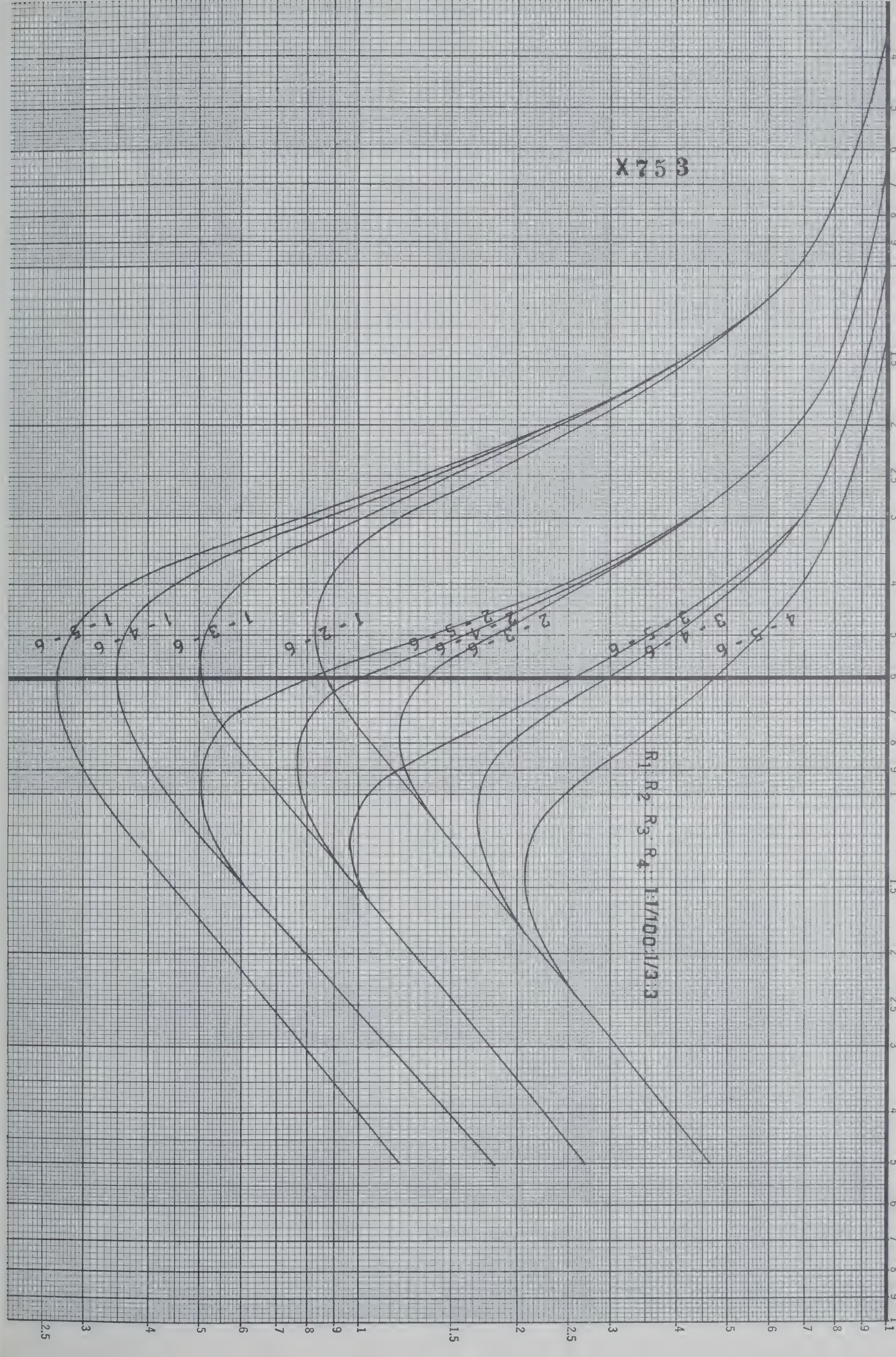

X743
R1:R2:R3:R4::1:1/100:1:3

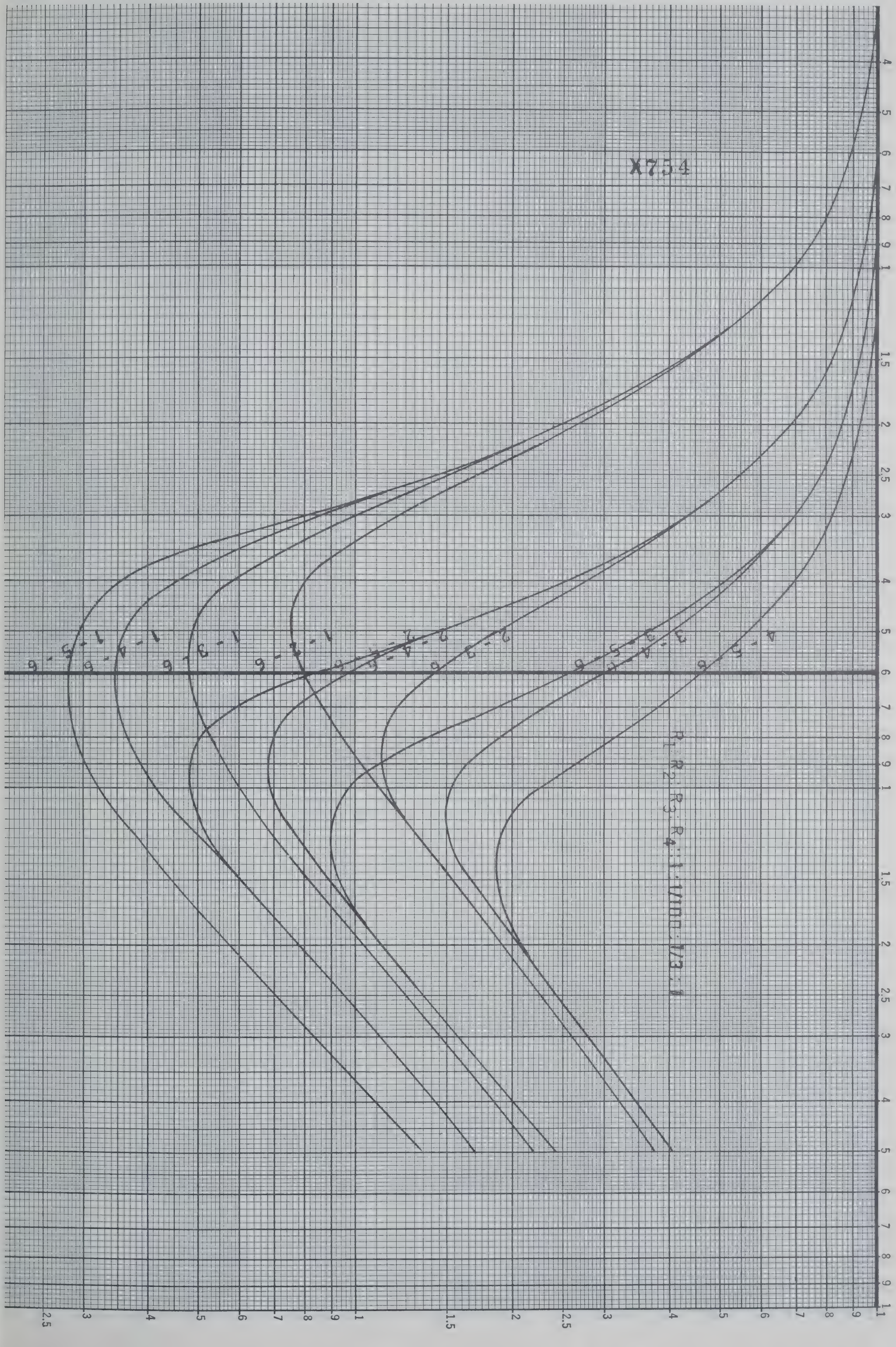

X745
R1 R2 R3 R4: 1/1/100 1 1/3
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

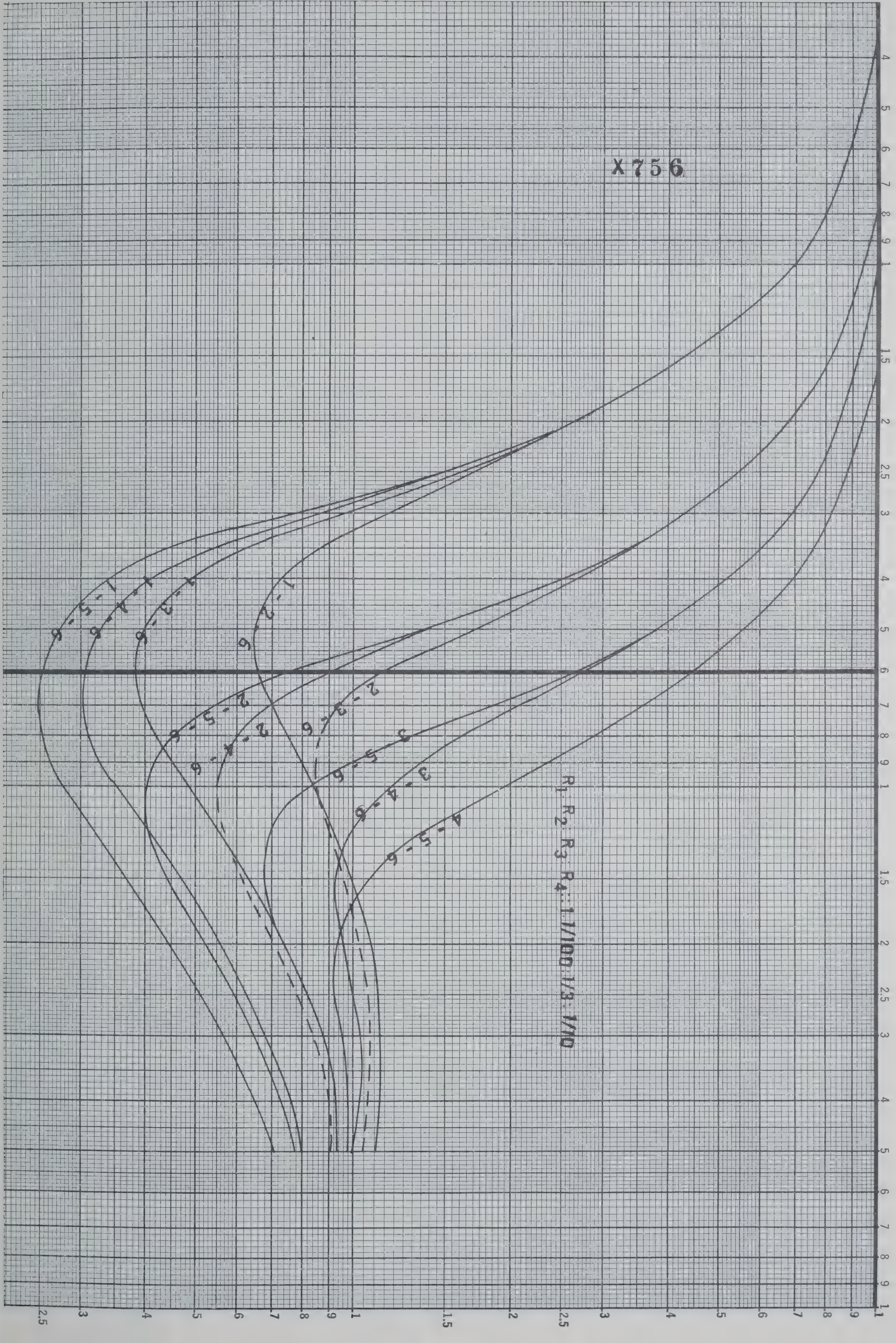

X746


X747
R1:R2:R3:R4::1:1/100:1:1/100
1-5-6
1-4-6
1-3-6
1-2-6


X752
R1:R2:R3:R4::1:1/100:1/3:10


X753
R1 R2 R3 R4 1:1/100:1/3:3


X754


X756
R1 R2 R3 R4 : 1 : 1/100 : 1/3 : 1/10
1-5-6
1-4-6
1-3-6
1-2-6
2-5-6
2-4-6
2-3-6
3-5-6
3-4-6
4-5-6

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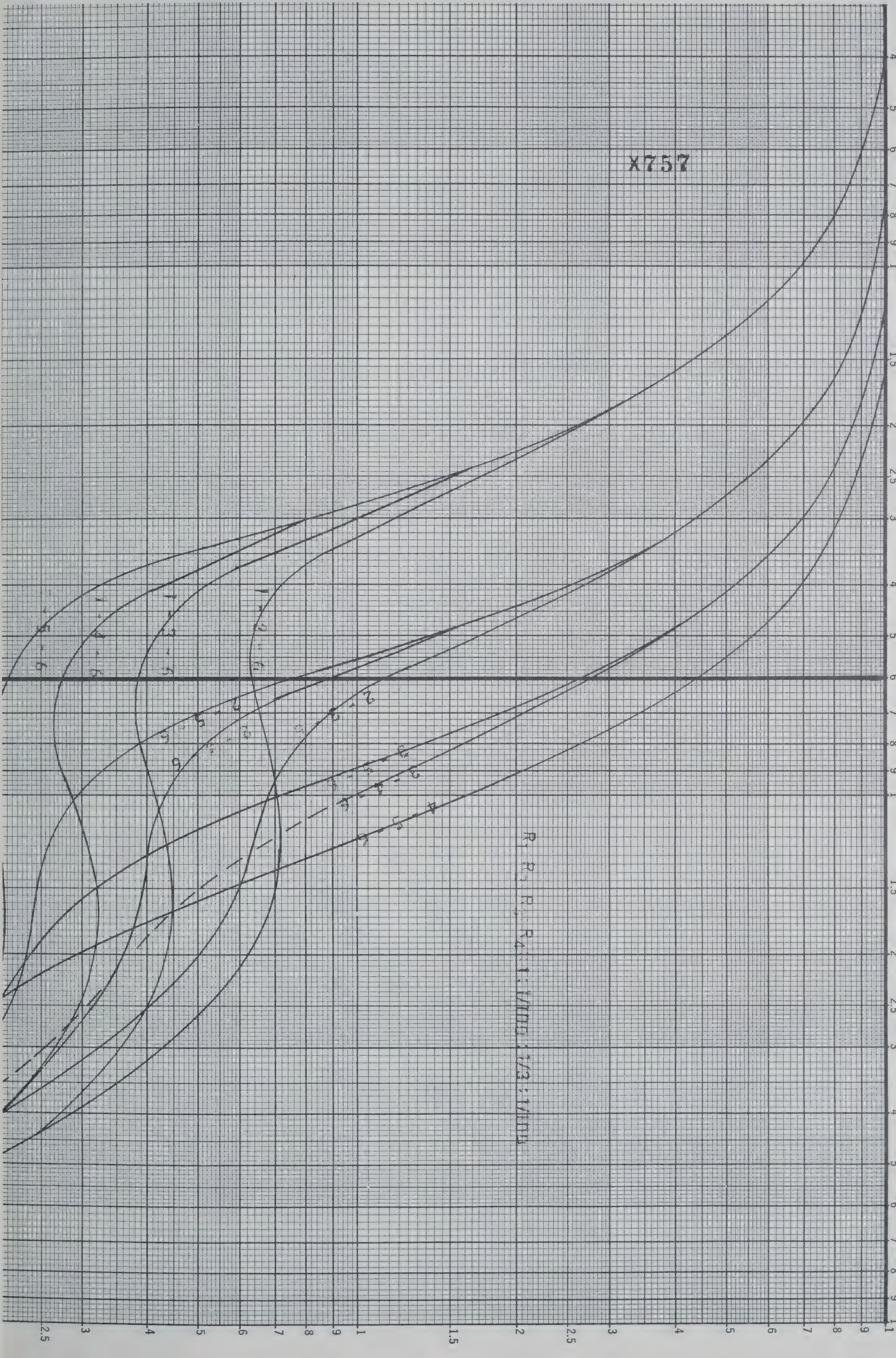
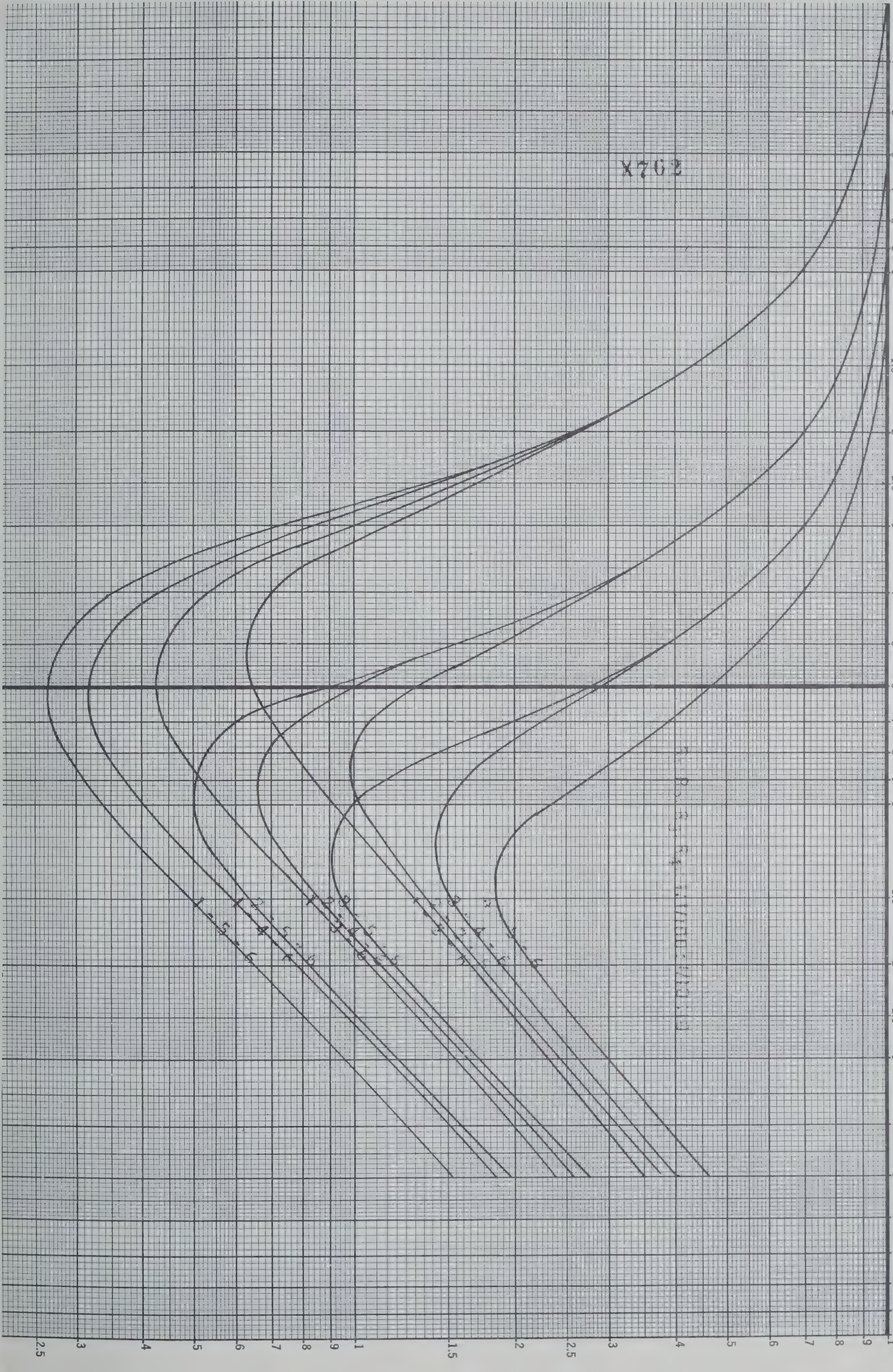
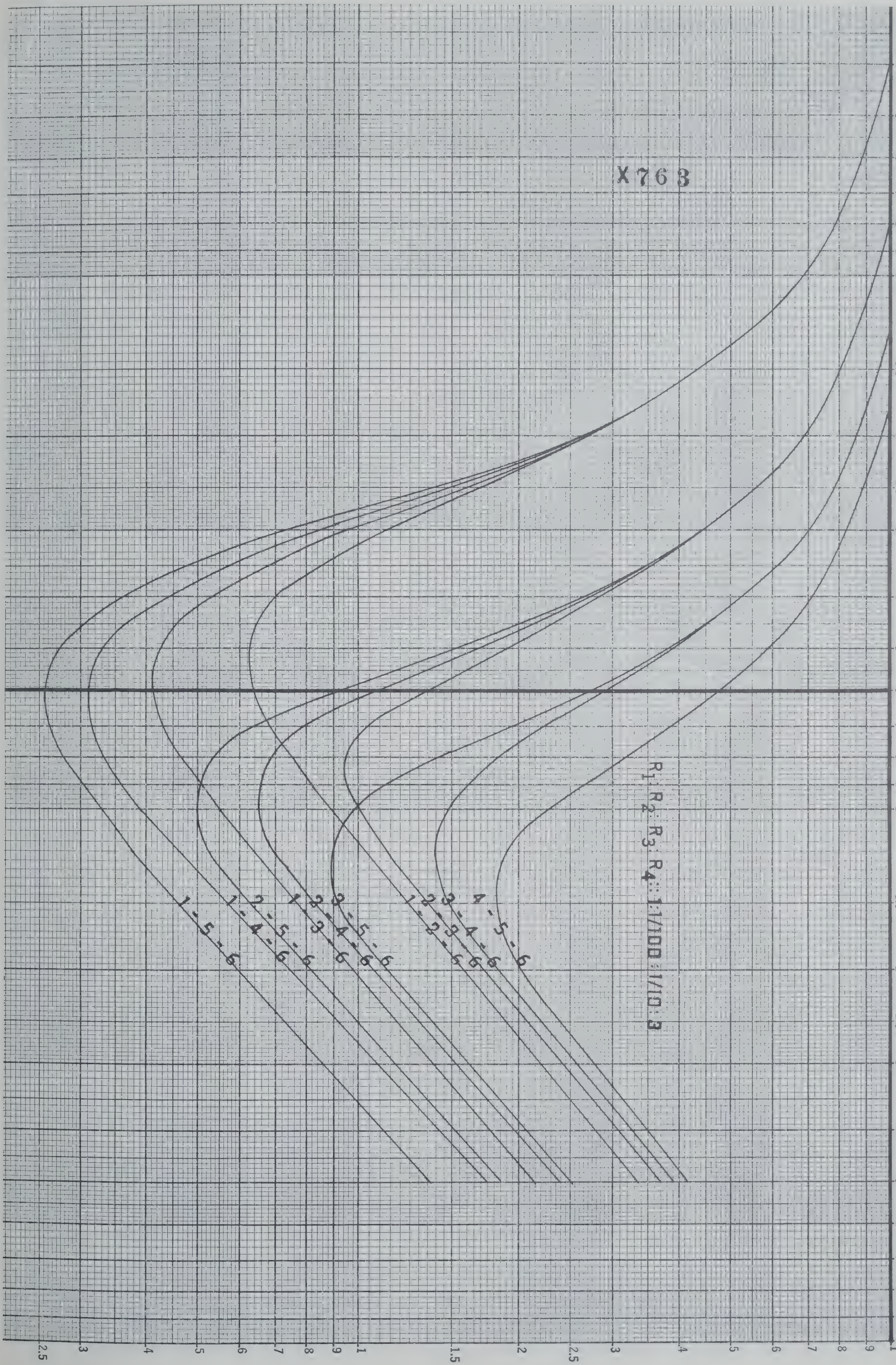
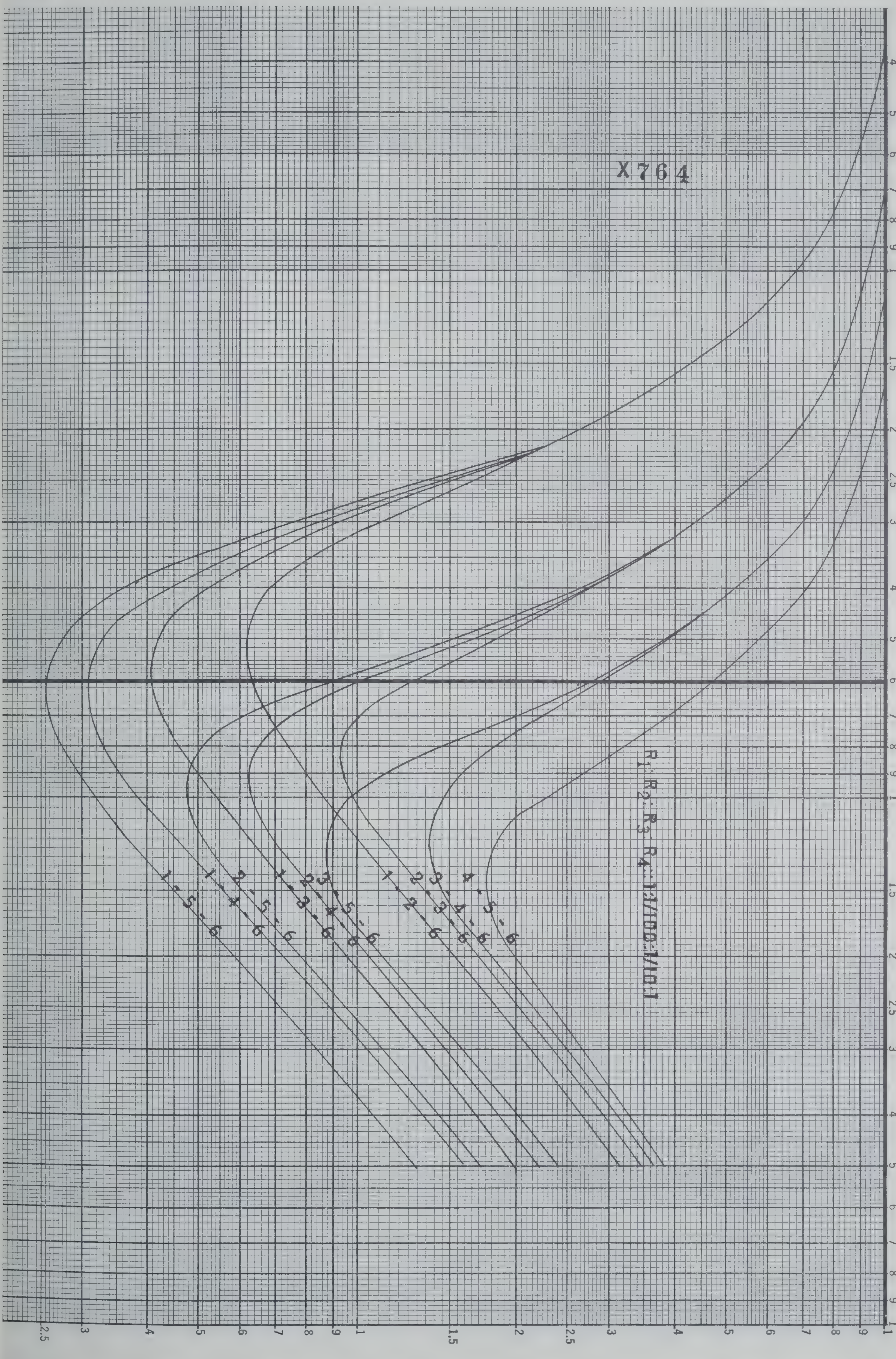
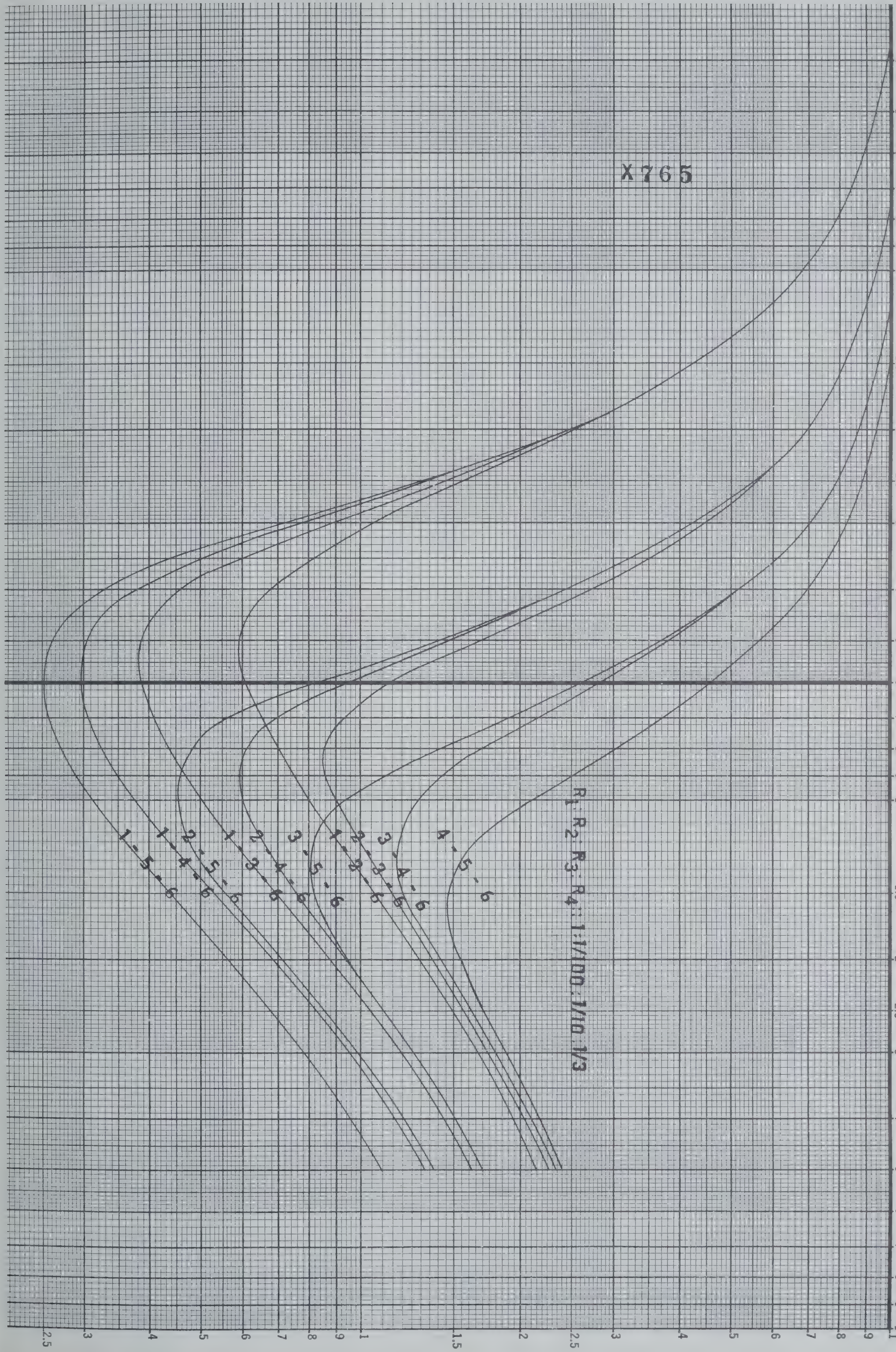
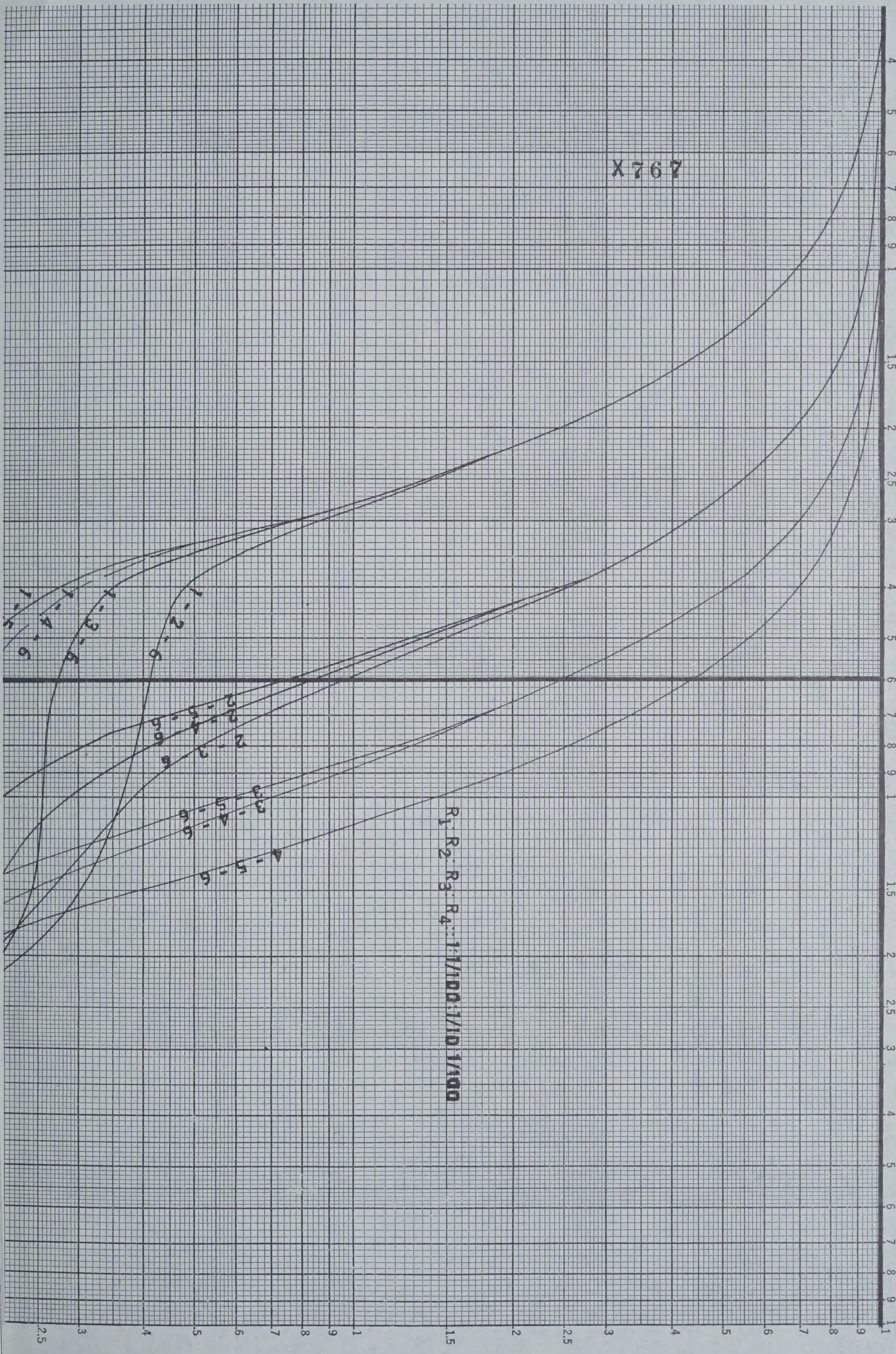
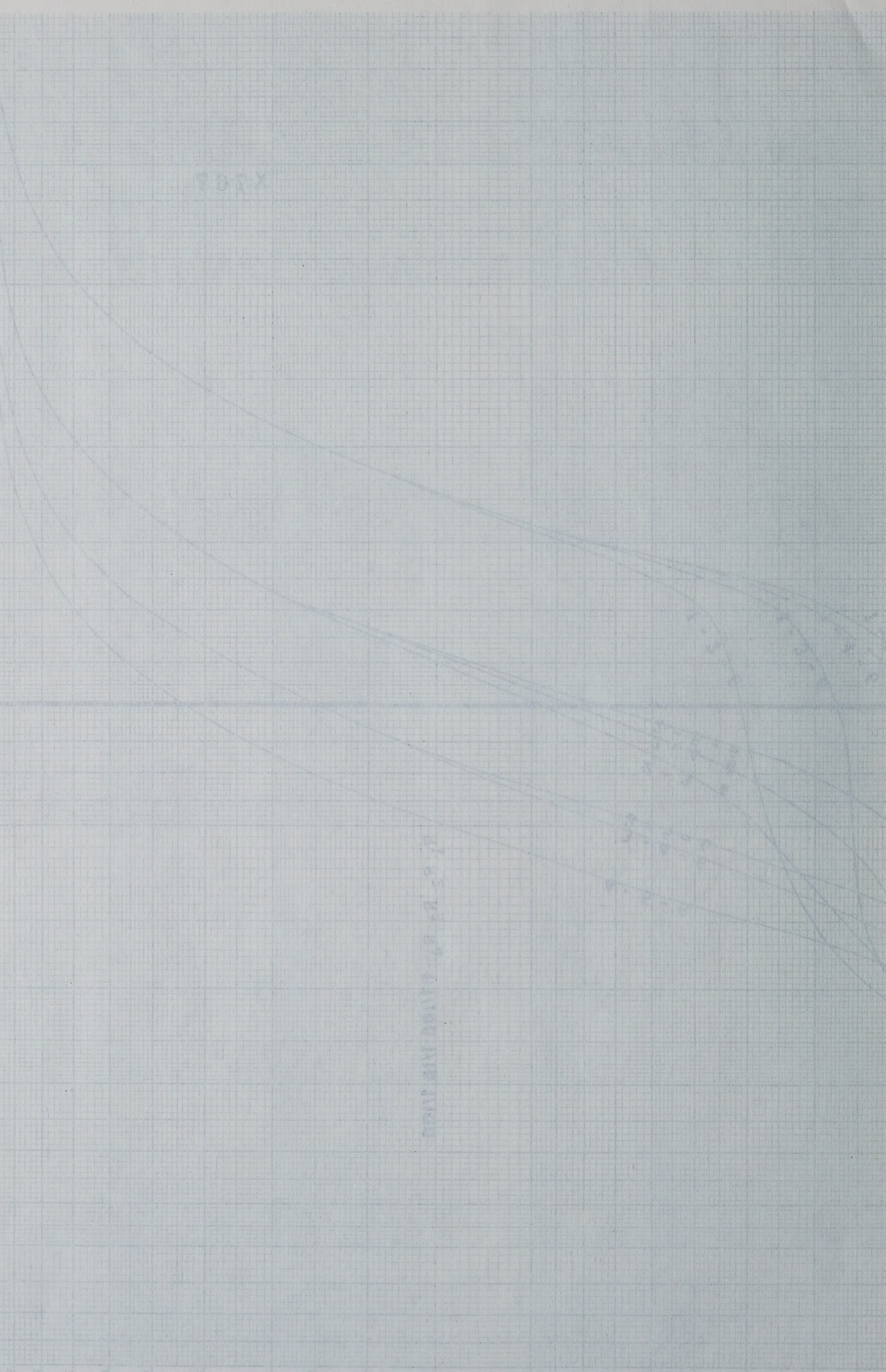



X762


X763
R1:R2:R3:R4::1:1/100:1/10:3
1-5-6
1-4-6
2-5-6
1-3-6
2-4-6
3-5-6
1-2-6
2-3-6
3-4-6
4-5-6


X 764
$R_1 : R_2 : R_3 : R_4 :: 1 : 1/10 : 1/10 : 1$
1-5-6
1-4-6
2-5-6
1-3-6
2-4-6
3-5-6
1-2-6
2-3-6
3-4-6
4-5-6


X765
1-5-6
1-4-6
2-5-6
1-3-6
2-4-6
3-5-6
1-2-6
2-3-6
3-4-6
4-5-6
$R_1:R_2:R_3:R_4::1:1/100:1/10$ 1/3


X767
R1:R2:R3:R4::1:1/100:1/10:1/100